

Fisa de indeplinire a standardelor in vederea promovarii (profesor universitar, domeniul de Inginerie Electrică)

Nr. Crt.	Domeniul activitatilor	Tipul activitatilor	Categorii si restrictii	Subcategorii	Indicatori (kpi)	Punctaj
1	Activitatea didactica si profesionala (A1)	1.1 Carti si capitol in carti de specialitate	1.1.1 Carti cu ISBN/capitol ca autor didactice sau monografii (pentru profesor minimum 4)	1.1.1.1 Internationale	Nr. Pagini/(2* nr. Autori)	C3 – 47/(2*6) 3.92 C4 – 27/(2*4) 3.37
				1.1.1.2 nationale	Nr. Pagini/(5* nr. Autori)	C1 – 250/(5*2) 25 C2 – 297/(5*2) 29.7 C5 – 170/(5*1) 34 C6 – 259/(5*3) 17.26 C7 – 155/(5*3) 10.33
			1.1.2 Carti / capitol de carti ca editor/coordonator	1.1.2.1 internationale	Nr. Pagini/(3* nr. Autori)	0
				1.1.2.2 nationale	Nr. Pagini/(7* nr. Autori)	0
		1.2 Suport didactic	1.2.1 Suport de curs, inclusiv electronic: pentru profesor minimum 2		Nr. Pagini/(10 *nr. Autori)	Curs 1 – 173/10 17.3 Curs 2 – 312/10 31.2 Curs 3 – 290/10 29
			1.2.2 Indrumare de laborator/aplicatii: pentru profesor minimum 2		Nr. Pagini/(20 *nr. Autori)	I1 – 201/(20*2) 5.02 I2 – 209/(20*1) 10.45 I3 – 192/(20*1) 9.6
		1.3 Coordonare de programe de studii, organizare si coordonare de programe de formare continua	Punctaj unic pentru fiecare activitate		10	0
2	Activitatea de cercetare (A2)	2.1 Articole in extenso in reviste cotate si in volume proceedings indexate ISI Thompson – Reuters, brevet de inventie	Minim 11 pentru profesor		(25+20*factor de impact)/nr . de autori	RB1=6.25, RB2=12.5, RB3=12.5, RB4=8.33, Ri1=6.81, Ri2=6.25, Ri3=5, Ri4=4.16, Ri5=4.16, Ri6=9.36, Ri7=4.16, Ri8=4.16, Ri9=6.25, Ri10=6.25, Ri11=4.16, Ri12=5, Ri13=19.085, Ri14=10.225, Ri15=10.592, Ri16=5, Ri17=5, Ri18=8.33, Ri19=8.33, Ri20=6.25, Ri21=8.48, Ri22=8.33,

					Ri23=5, Ri24=6.25, Ri25=4.16, Ri26=8.33, Ri27=9.09, Ri28=12.5, Ri29=8.33
		2.2 Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale	Minim 16 pentru profesor	20/nr. De autori	R1=3.33, R2=5, Rn1=3.33, Rn2=3.33, Rn3=4, Rn4=5, Rn5=2.22, Rn6=4, Rn7=5, Rn8=6.66, Rn9=4, Rn10=5, Rn11=4, Rn12=6.66, Rn13=6.66, Rn14=6.66, Rn15=5, Rn16=4, Rn17=4, Rn18=4, Rn19=4, Rn20=5, Rn21=4, Rn22=4, Rn23=4, Rn24=3.33, Rn25=2.5, Rn26=5, Rn27=5, Rn28=5, Rn29=5, Rn30=6.66, Rn31=4, Rn32=4
		2.3 Granturi /proiecte castigate prin competitie	2.3.1 Director / responsabil – minim 2 pentru profesor	2.3.1.1 Internationale	20*ani de desfasurare Pi1 – 20*2=40 Pi2 - 20*2=40 Pi3 - 20*2=40
				2.3.1.2 nationale	10*ani de desfasurare 0
			2.3.2 membru in echipa	2.3.2.1 internationale	4*ani de desfasurare Pi4 - 4*2=8 Pi5 – 4*2=8
				2.3.2.2 nationale	2*ani de desfasurare Pn1 - 2*3=6 Pn2 - 2*2=4 Pn3 - 2*3=6 Pn4 - 2*2=4
		2.4 Contracte de cerchetare / consultanta (valoare echivalenta de minim 2000 euro)	2.4.1 Responsabil	5*ani de desfasurare 0	
			2.4.2 Membru echipa	2*ani de desfasurare 0	
3	Recunoastere a impactului activ (A3)	3.1 Citari in reviste si volumele conferintelor ISI si BDI	Minim 40 citari pentru profesor	3.1.1 ISI	5/nr. Autori ai art. citat Ci1-Ci31=1.25 Ci34-Ci41=1.25 Ci42=Ci67=Ci69- Ci71=Ci73=1 Ci43-Ci48=1.25 Ci50=Ci51=1.25 Ci53- Ci66=Ci68=1.25 Ci74-Ci135=Ci137- Ci141=Ci145- Ci151=Ci153- Ci160=Ci162- Ci165=0.55
				3.1.2 BDI	3/nr. Autori ai art. citat Ci32=Ci33=Ci49=Ci5 2=0.75 Ci72=0.6

					Ci136=Ci142=Ci144 =Ci152=Ci161=0.33
3.2 Prezentari invitate in plenul unor manifestari stiintifice nationale si internationale si profesor invitat	Punctaj unic pentru fiecare activitate	3.2.1 internationale	20	20*6 120	
		3.2.2 nationale	5	0	
3.3 Membru in colectivele de redactie sau comitetelor stiintifice ale revistelor si manifestarilor stiintifice, organizator de manifestari stiintifice, recenzor pentru reviste si manifestari stiintifice nationale si internationale (punctajul se acorda pentru fiecare revista, manifestare stiintifica si recenzie)	Punctaj unic pentru fiecare activitate	3.3.1 ISI	10	Re1=10 Re2=10	
		3.3.2 BDI	6	Re3=6 Re4=6 Re5=6 Re6=6	
		3.3.3 nationale si internationale indexate	3	0	
3.4 Experienta de management		3.4.1 Conducere (rector, prorector etc.)	5*nr.ani	0	
		3.4.2 Membru organism conducere (senat, consilii etc.)	2*nr.ani	0	
3.5 Referent in comisii de doctorat		3.5.1 internationale	10	10*1 10	
		3.5.2 nationale	5	0	
3.6 Premii		Academia Romana	30	0	
		ASAS, AOSR, academii de ramura si CNCS	15	15*1 15	
		Premii internationale	10	1*10	
		Premii nationale in domeniul	5	0	
3.7 Membru in academii, organizatii, asociatii profesionale de prestigiu, nationale si	3.7.1 Academia Romana		100	0	
	3.7.2 ASAS, AOSR si academii de		30	0	

		internationale, apartenenta la organizatii din domeniul educatiei si cercetarii	ramura			
			3.7.3 Conducere asociatii profesionale	internationale	30	0
				nationale	10	0
			3.7.4 Asociatii profesionale	internationale	5	0
				nationale	2	2
			3.7.5 Consilii si organizatii in domeniul educatiei si cercetarii	conducere	15	0
				membru	10	0
		Total puncte				

Activitate didactica / profesionala (A1) = 226.15 puncte (minim 80 puncte)

Activitate de cercetare (A2) – 248.58(2.1)+153.34(2.2)+156(2.3)=

557.92 (minim 300 puncte)

Recunoastere a impactului activ (A3)=136.6(3.1)+120(3.2)+44(3.3)+10(3.5)+25(3.6)+2(3.7)=
337.6 (minim 60 puncte)

Total indicator de merit: A=A1+A2+A3=1121.67 puncte

(minim 440 puncte)

LISTA DE LUCRARI (JUSTIFICARE ÎNDEPLINIRE STANDARDE)

Candidat: Hnatiuc Bogdan – Doctor din anul 2001, Conf.univ.dr.ing. din anul 2013

1. Teza de doctorat in cotutela, intre Universitatea Tehnica "Gheorghe Asachi" Iasi si Universitatea din Orleans, Franta, cu titlul:
"Contributii teoretice si experimentale la studiul unor descarcari electrice de tip plasma rece"
2. Carti publicate, indrumare, carti publicate in volume colective, capitol teoretice redactate, sisteme de laborator functionale, prin care se aduc contributii la asigurarea si perfectionarea activitatilor didactice / profesionale.

- C1.** E. Hnatiuc, **B. Hnatiuc**, *Bazele teoretice ale functionarii aparatelor electrice*, Editia a II-a, Editura Tehnopress, 2013, ISBN 978-973-702-987-4 (250 p)
- C2.** E. Hnatiuc, **B. Hnatiuc**, *Aparate electrice*, Editura Tehnopress, 2011, ISBN 978-973-702-863-1 (297 p)
- C3.** Coautor la capitolul intitulat *Decontamination of Chemical and Microbial Targets using Gliding Electrical Discharge* din volumul *Biological and Environmental Applications of Gas Discharge Plasmas*, Editor Graciela Brelles-Marino, California State Polytechnic University, Pomona, SUA, ISBN:978-1-60741-945-7, Nova Science Publisher, 2009 (autori: M. Naitali, J. – M. Herry, **B. Hnatiuc** et al.), p. 189-236
- C4.** E. Hnatiuc, J.-L. Brisset, **B. Hnatiuc**, R. Burlica, capitol *About the electrochemical reactors with cold plasma discharges engineering* din volumul *European Research in Cold Plasma Applications*, Iasi, Romania, 2007, p. 99-126, C. Roman Ed. [ISBN 978-973-0-04933-6]
- C5.** **B. Hnatiuc**, *Elemente de Teoria Câmpului Electromagnetic*, Editura Politehnium, Iași, 2006, ISBN 973-621-150-9 (170 p)
- C6.** E. Hnatiuc, R. Burlica, **B. Hnatiuc**, *Bazele teoretice ale funcționării aparatelor electrice*, Casa de Editura Venus, 2004, ISBN 973-7960-52-1 (259 p)
- C7.** R. Burlica, E. Hnatiuc, **B. Hnatiuc**, *Aparate electrice de comutație acționate cu electromagneți*, Casa de Editura Venus, 2004, ISBN 973-7960-30-0 (155 p)
- I1.** C. Petrescu, **B. Hnatiuc**, *Electrotehnica si Teoria Campului Electromagnetic*, Indrumar de lucrari de laborator, Casa de Editura Venus, Iasi, 2006, ISBN 973-756-025-4; 978-973-756-026-1 (201 p)
- I2.** **B. HNATIUC**, *Compatibilitate electromagnetică: îndrumar de aplicații*, Editura Nautica Constanța, ISBN 978-606-681-015-9, 209 p, 2013
- I3.** **B. HNATIUC**, *Aparate electrice: îndrumar de aplicații*, Editura Nautica Constanța, ISBN 606 – 681 – 077 – 4, 192 p, 2016

3. Articole / studii publicate:

a. In reviste de specialitate de circulatie internationala recunoscute cotate ISI sau indexate in baze de date internationale specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta

1. M. Ursache, **B. Hnatiuc**, E. Hnatiuc, D. Astanei, J. –L. Brisset, R. Burlică, *Direct and delayed degradation of azorubin (E122) by Gliding Arc discharges*, Environmental Engineering and Management Journal, November 2015, Vol. 14, No. 11, 2737 – 2746, ISSN: 1582-9596 (IP=0.795, Ri1=(25+20*0.795)/6=**6.81**)
2. M. Hnatiuc, A. Sabău, **B. Hnatiuc**, S. Ghiță, *Comparative analysis of bio fouling microorganisms after treatment with glidarc*, Modern Technologies in Industrial Engineering (ModTech2015) IOP Publishing IOP Conf. Series: Materials Science and Engineering 95 (2015) 012057 doi:10.1088/1757-899X/95/1/012057 (IP=0, Ri2=25/4=**6.25**)
3. Dragos Astanei, Florin Munteanu, Ciprian Nemes, Stephane Pellerin, **Bogdan Hnatiuc**, *Electrical Diagnostic of High Voltage Discharges Produced by a New Spark-Plug*, 2015 13th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, IEEE Database, 978-1-4799-7650-8/15/\$31.00 ©2015 IEEE (IP=0, Ri3=25/5=**5**)
4. **B. Hnatiuc**, A. Sabau, S. Ghita, M. Hnatiuc, C. –L. Dumitache, S. Pellerin, *Influence of GlidArc treatment on layers fromation of Biofouling*, The 7th edition of the International Conference on Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies, ATOM-N 2014, 21 – 24 August 2014, Constanta, Romania, *Proc. SPIE* 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII, 92580A (February 21, 2015); doi:10.1117/12.2070236 (IP=0, Ri4=25/6=**4.16**)
5. **B. Hnatiuc**, S. Ghita, A. Sabau, M. Hnatiuc, C. –L. Dumitache, M. Wartel, *Treatment with activated water by GlidArc technology of bacteria producing Biofouling*, The 7th edition of the International Conference on Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies, ATOM-N 2014, 21 – 24 August 2014, *Proc. SPIE* 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII, 925809 (February 21, 2015); doi:10.1117/12.2070233 (IP=0, Ri5=25/6=**4.16**)
6. **B. Hnatiuc**, D. Astanei, S. Pellerin, N. Cerqueira, M. Hnatiuc, *Diagnostic of plasma produced by a spark plug at atmospheric pressure: reduced electric field and vibrational temperature*, Contributions to Plasma Physics Journal, 24 March, 2014, DOI: 10.1002/ctpp.201300059, Online ISSN: 1521-3986 (IP=1.09, Ri6=(25+20*1.09)/5=**9.36**)
7. **B. Hnatiuc**, D. Astanei, S. Pelerin, M. Hnatiuc, F. Faubert, M. Ursache, *Electrical modeling of a double spark at atmospheric pressure*, 14th International Conference on optimization of electrical and electronic equipment, OPTIM2014, Brasov, May 22 – 24, 2014, IEEE Conference, ISSN 1842-0133, p. 189 (IP=0, Ri7=25/6=**4.16**)
8. P. Abba, S. Djepang, S. Laminsi, E. Hnatiuc, J. – L. Brisset, **B. Hnatiuc**, *Pollution abatement of tannery workshop effluents*, 14th International Conference on optimization of electrical and electronic equipment, OPTIM2014, Brasov, May 22 – 24, 2014, IEEE Conference, ISSN 1842-0133, p. 184 (IP=0.5, Ri8=25/6=**4.16**)
9. **B. Hnatiuc**, C. Petrescu, M. Hnatiuc, D. –G. Astanei, *Ignition Modelling of a Double Sparking Plug for Internal Combustion Engines*, EPE2014, 8th International Conference on

Electrical and Power Engineering, Iasi, Romania, IEEE Conference, ISBN 978-1-4799-5848-1 (IP=0, Ri9=25/4=6.25)

10. M. Ursache, E. Hnatiuc, R. Burlica, **B. Hnatiuc**, *The influence of the dispersion flux on the connection transient regime for DC electromagnets*, Conference of Electric and Power Engineering, EPE 2012, DOI: 10.1109/ICEPE.2012.6463931, 2012, p. 172-177, IEEE Conference Publications (Ri10=25/4=6.25)
11. D. Astanei, S. Pellerin, N. Cerqueira, **B. Hnatiuc**, E. Hnatiuc, M. Ursache, *Influence of the interaction surface between plasma and air / fuel mixture of the combustion process*, Conference of Electric and Power Engineering, EPE 2012, DOI: 10.1109/ICEPE.2012.6463885, 2012, p. 491-496, IEEE Conference Publications (Ri11=25/6=4.16)
12. E. Hnatiuc, D. Astanei, M. Ursache, **B. Hnatiuc**, J. -L. Brisset, *A review over the cold plasma reactors and their applications*, Conference of Electric and Power Engineering, EPE 2012, DOI: 10.1109/ICEPE.2012.6463884, 2012, p. 497-502, IEEE Conference Publications (Ri12=25/5=5)
13. R. Burlica, K.-Y. Shih, **B. Hnatiuc**, B.R. Locke, *Hydrogen generation by Pulsed Gliding Arc Discharge Plasma with Sprays of Alcohol Solutions*, Industrial and Engineering Chemistry Research, No. 50 (15), 2011, p. 9466 – 9470, Doi: 10.1021/ie101920n (IP=2.567, Ri13=(25+20*2.567)/4=19.085)
14. R. Burlica, **B. Hnatiuc**, E. Hnatiuc, M. Ursache, *Effect of electrical current on H₂/H₂O₂ generation in non-thermal plasma Gliding Arc reactors*, Environmental Engineering and Management Journal, Aprilie 2011, Vol.10, Nr. 4, p. 579-583, ISSN: 1582-9596 (IP=0.795, Ri14=(25+20*0.795)/4=10.225)
15. **B. Hnatiuc**, S. Pellerin, E. Hnatiuc, D. Astanei, N. Cerqueira, *Spectroscopic diagnostic of a transient plasma produced by a spark plug*, Romanian Journal of Physics, Vol. 56 Supplement, 2011, ISSN 1221-146X (IP=1.398, Ri15=(25+20*1.398)/5=10.592)
16. D. Moussa, J. -L. Brisset, M. Naitali, J. -M. Herry, **B. Hnatiuc**, *Reactions induced by electrical discharges in pollutant abatement and bacterial inactivation*, 12th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2010, Brasov, May 20 – 22, ISBN 978-973-131-080-0, CPDA 9.1.04 (Ri16=25/5=5)
17. G. Todirasi, E. Hnatiuc, R. Burlica, **B. Hnatiuc**, B. Gavril, *Reduction of Electromagnetic Perturbations for Cold Plasma Electrochemical Reactors Using Electromagnetic Screening*, 12th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2010, Brasov, May 20 – 22, ISBN 978-973-131-080-0, CPDA 9.1.06 (Ri17=25/5=5)
18. E. Hnatiuc, J. -L. Brisset, **B. Hnatiuc**, *The Ignition and Control Condition for the Useful Discharge in a Glidarc Reactor with Plane Geometry and Auxiliary Electrodes*, 12th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2010, Brasov, May 20 – 22, ISBN 978-973-131-080-0, CPDA 9.1.07 (Ri18=25/3=8.33)

19. R. Burlica, **B. Hnatiuc**, E. Hnatiuc, *Hydrogen and Hydrogen Peroxide formation in the AC water – spray gliding arc reactor*, 12th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2010, Brasov, May 20 – 22, ISBN 978-973-131-080-0, CPDA 9.1.08 (Ri19=25/3=8.33)
20. **B. Hnatiuc**, S. Pellerin, E. Hnatiuc, R. Burlica, *The study of an electric spark for igniting a fuel mixture*, 12th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2010, Brasov, May 20 – 22, ISBN 978-973-131-080-0, CPDA 9.1.09 (Ri20=25/4=6.25)
21. J. –L. Brisset, D. Moussa, A. Doubla, E. Hnatiuc, **B. Hnatiuc**, G. Kamgang Youbi, J. – M. Herry, M. Naitali, M. –N. Bellon Fontaine, *Chemical reactivity of discharges and temporal post-discharges in plasma treatment of aqueous media : examples of gliding discharge treated solutions*, Ind. Eng. Chem. Res. 2008, 47, p. 5761 - 5781 (IP=2.567, Ri21=(25+20*2.567)/9=8.48)
22. E. Hnatiuc, **B. Hnatiuc**, G. Todirasi, *The diminution of the perturbations of cold plasma reactors*, XVIIIth Symposium on Physics of Switching Arc, p. 56, 7-11 September, Brno, 2009, Czech Republic, ISBN: 978-80-214-3793-7 (Ri22=25/3=8.33)
23. Todirasi G., Hnatiuc E., **Hnatiuc B.**, Burlica R., Gavril B., *Electromagnetic behavior of cold plasma electrochemical reactors GlidArc type*, XVIIIth Symposium on Physics of Switching Arc, p. 292, 7-11 September, Brno, 2009, Czech Republic, ISBN: 978-80-214-3793-7 (Ri23=25/5=5)
24. **Hnatiuc B.**, Pellerin S., Burlica R., Hnatiuc E., *Electrical and physical properties of a gliding arc*, XVIIth Symposium on Physics of Switching Arc, p. 97-100, 10-13 September, Brno 2007, Czech Republic, ISBN: 978-80-214-3370-0 (Ri24=25/4=6.25)
25. Hnatiuc E., Cotea V., Burlica R., **Hnatiuc B.**, Zanoaga C., Nicolaua M, *The wine treatment and conditioning by cold plasma discharges*, XVIIth Symposium on Physics of Switching Arc, p. 101-104, 10-13 September, Brno 2007, Czech Republic, ISBN: 978-80-214-3370-0 (Ri25=25/6=4.16)
26. R. Burlica, **B. Hnatiuc** and E.Hnatiuc, *The Effects of Gas Flow-rate on electrical parameters of Gliding arc discharges*, XVIIth Symposium on Physics of Switching Arc, p. 41-44, 10-13 September, Brno 2007, Czech Republic, ISBN: 978-80-214-3370-0 (Ri26=25/3=8.33)
27. **B. Hnatiuc**, S. Pellerin, J. Chapelle, E. Hnatiuc, *Experimental analysis of a double spark ignition system*, Czechoslovak Journal of Physics, No. 6157, 56(8), 851-868, 2006 (Ri27=(25+20*0.568)/4=9.09)
28. **B. Hnatiuc**, S. Pellerin, *Electrical modelling and diagnostic of a luminescent discharge at high pressure*, OPTIM 2004, Optimization of Electrical and Electronical Equipment, ISBN 973-635-285, p.191-194, May 20 – 23 2004, Brasov, Romania (Ri28=25/2=12.5)
29. E. Hnatiuc, R. Burlica, **B. Hnatiuc**, *The Disconnecting Regime of the Fast Electromagnetic Circuit Breakers*, OPTIM 2004, Optimization of Electrical and Electronical Equipment, ISBN 973-635-285, May 20 – 23 2004, Brasov, Romania (Ri29=25/3=8.33)

b. In alte reviste de specialitate de circulatie internationala

1. D. Astanei, S. Pellerin, **B. Hnatiuc**, F. Faubert, N. Cerqueira, M. Ursache, *Etude d'une bougie à double étincelle pour la combustion propre*, Journal National de Recherches de l'Institut Universitaire Technologique, JNRIUT, ISSN 2107-5549, Nr. 4/ juin 2013 (R1=20/6=3.33)
2. J. -L. Brisset, E. Hnatiuc, **B. Hnatiuc**, G. Kamgang Youbi, *Plasma chemical inactivation of bacteria*, International Journal of Biosciences and Technology (IJBST), ISSN 0974-3987, 2014, 7(2): 5-14 (R2=20/4=5)

c. In reviste din tara recunoscute CNCSIS

1. **B. Hnatiuc**, A. Sabău, S. Ghiță, M. Hnatiuc, R. Zăgan, E. Dumitru, *Producerea apei activate cu plasmă pentru aplicații de decontaminare*, Buletinul AGIR nr. 4/2015, ISSN-L 1224-7928 (Rn1=20/6=3.33)
2. **B. Hnatiuc**, A. Sabau, S. Ghita, M. Hnatiuc, C. -L. Dumitrache, S. Zagan, *Tratamente cu plasma non-termica pentru aplicatii din domeniul naval*, Buletinul AGIR nr. 4/2014, ISSN-L 1224-7928 (Rn2=20/6=3.33)
3. E. Hnatiuc, B. Gavril, J. -L. Brisset, **B. Hnatiuc**, R. Burlica, *The electrochemical reactors synergy provided by coupling with other procedures*, Buletinul Institutului Politehnic din Iasi, Sectia Electrotehnica, Energetica, Electronica, Tomul LVII (LXI), Fascicula 5, p. 137 – 144, 2011 (Rn3=20/5=4)
4. **B. Hnatiuc**, S. Pellerin, E. Hnatiuc, R. Burlica, *Electrical and optical analysis for physical description of a double spark*, Buletinul Institutului Politehnic din Iasi, Sectia Electrotehnica, Energetica, Electronica, Fascicula 1/ 2006 (Rn4=20/4=5)
5. E. Hnatiuc, J. -L. Brisset, **B. Hnatiuc**, D. Mousa, R. Burlica, A. Doubla, J. Fanmoe, O. Kamgang, E. Tsagou, *About the performances of the electrochemical reactors with cold plasma*, Buletinul Institutului Politehnic din Iasi, Sectia Electrotehnica, Energetica, Electronica, Tomul L (LIV), Fascicula 5, 2004 (Rn5=20/9=2.22)
6. **B. Hnatiuc**, S. Pellerin, V. Rascanu, E. Hnatiuc, R. Burlica, *Analysis of the transition of a dielectric barrier discharge to a luminescent discharge*, Buletinul Institutului Politehnic din Iasi, Sectia Electrotehnica, Energetica, Electronica, Tomul L (LIV), Fascicula 5, 2004 (Rn6=20/5=4)
7. E. Hnatiuc, J. -L. Brisset, R. Burlica, **B. Hnatiuc**, *Possibilities to use electrochemical reactors with cold plasma type "GLIDARC" for the depollution of the waste waters*, Bul. I.P. Iasi, Tomul XLVIII (LII), Fasc. 1 – 2, p. 177 – 182, 2002 (Rn7=20/4=5)
8. E. Hnatiuc, R. Burlica, **B. Hnatiuc**, *The influence of magnetic straying field on DC electromagnets behaviour*, International Conference on Electrical and Power Engineering, 1999, Buletinul I. P. Iasi, Tomul XLV (IL), Fasc. 5, Iasi (Rn8=20/3=6.66)
9. **B. Hnatiuc**, P. Pastva, A. Czernichowski, E. Hnatiuc, A. Ranaivosoloarimanana, *La mesure de la puissance utile dans un réacteur électrochimique à plasma froid*, Buletinul I. P. Iasi, Tomul XLV (IL), Fasc. 1-2, Iasi, 1999 (Rn9=20/5=4)
10. A. Ranaivosoloarimanana, P. Pastva, **B. Hnatiuc**, A. Czernichowski, *GlidArc-I and GlidArc-II Reactors. Physical properties and electrical diagnostics*, Buletinul I. P. Iasi, Tomul XLV (IL), Fasc. 3-4, Iasi, 1999 (Rn10=20/4=5)

11. D. Astanei, S. Pellerin, **B. Hnatiuc**, E. Hnatiuc, *The study of electrical parameters and the exhaust gas analysis for a double spark plug*, Annals of the University of Craiova, Electrical Engineering Series, No. 35, 2011, ISSN 1842-4805 (Rn11=20/5=4)
12. E. Hnatiuc, A. Plesca, **B. Hnatiuc**, *Dynamic electromechanic characteristic of DC electromagnets will non-null starting flux*, 8th International Conference on Applied and Theoretical Electricity, ICATE2006, ISSN 1842-4805, Annals of the University of Craiova, Electrical Engineering Series, No. 30, 2006 (Rn12=20/3=6.66)
13. E. Hnatiuc, A. Plesca, **B. Hnatiuc**, *Dynamic electromechanic characteristic of DC electromagnets will null starting flux*, 8th International Conference on Applied and Theoretical Electricity, ICATE2006, ISSN 1842-4805, Annals of the University of Craiova, Electrical Engineering Series, No. 30, 2006 (Rn13=20/3=6.66)
-
4. Articole / studii publicate in volumele unor manifestari stiintifice
- a. Internationale recunoscute (cu ISSN sau ISBN) din tara si din strainatate
1. E. Hnatiuc, R. Burlica, **B. Hnatiuc**, *About the connecting process of electrical apparatuses driven by electromagnets*, EPE2010 Conference, Iasi, Romania, ISBN 978 – 606 – 13 – 0079 – 2, (Rn14=20/3=6.66)
2. R. Burlica, **B. Hnatiuc**, E. Hnatiuc, E. -L. Burlica, *The effect of geometrical and electrical parameters on the efficiency of H₂O₂ and H₂ production in Glidarc electrochemical reactors*, EPE2010 Conference, Iasi, Romania, ISBN 978 – 606 – 13 – 0079 – 2, (Rn15=20/4=5)
3. E. Hnatiuc, S. Pellerin, B. Gavril, J. -L. Brisset, **B. Hnatiuc**, *Possibilities of increasing the operation efficiency for Glidarc type electrochemical reactors by means of synergy provided by coupling with other procedures*, EPE2010 Conference, Iasi, Romania, ISBN 978 – 606 – 13 – 0079 – 2, (Rn16=20/5=4)
4. J. Fanmoe, **B. Hnatiuc**, E. Hnatiuc, J. -L. Brisset, B. Gavril, *Acid effects in the plasma-chemical degradation of an anthraquinonic dye: alizarine red S*, EPE2010 Conference, Iasi, Romania, ISBN 978 – 606 – 13 – 0079 – 2, (Rn17=20/5=4)
5. F. Gnokam Zumzang, **B. Hnatiuc**, J. -L. Brisset, E. Hnatiuc, B. Gavril, *Environmental applications of non-thermal plasma : degradation of slaughterhouse effluents*, EPE2010 Conference, Iasi, Romania, ISBN 978 – 606 – 13 – 0079 – 2, (Rn18=20/5=4)
6. **B. Hnatiuc**, D. Astanei, S. Pellerin, N. Cerqueira, M. Hnatiuc, *Double spark ignition system: spectroscopic diagnostic of the plasma*, 20th International Symposium on Plasma Chemistry ISPC 20, Philadelphia, USA, Iulie 24 - 29, 2011 (Rn19=20/5=4)
7. G. Todirasi, E. Hnatiuc, **B. Hnatiuc**, B. Gavril, *The study of electromagnetic perturbations in steady state conditions for cold plasma electrochemical reactors GLIDARC type*, 19th International Symposium on Plasma Chemistry, ISPC2009, Bochum, July 26 – 31, Germany (Rn20=20/4=5)
8. S. Padureanu, E. Hnatiuc, S. Oancea, **B. Hnatiuc**, B. Gavril, *Induced effects by GlidArc treatment on the mitotic division and on the growth process in Triticumaestivum L.*, 19th International Symposium on Plasma Chemistry, ISPC2009, Bochum, July 26 – 31, Germany (Rn21=20/5=4)
9. R. Burlica, **B. Hnatiuc**, E. Hnatiuc, M. Niculaea, C. Zanoaga, *The wine treatment by Gliding Arc discharges*, 6^{ème} Conférence Française d'Electrostatique, SFE2008, p. 347 – 350, 7-9 juillet 2008, Paris, France, ISBN 978-2-9505432-6-4 (Rn22=20/5=4)

10. J. -L. Brisset, A. Doubla, G. Kamgang-Youbi, J. -M. Herry, **B. Hnatiuc**, *Interaction between Gliding Discharge and Liquid Target for Pollution Abatement*, 6^{ème} Conférence Française d'Electrostatique, SFE2008, p. 326 – 329, 7-9 juillet 2008, Paris, France, ISBN 978-2-9505432-6-4 (**Rn23=20/5=4**)
11. **B. Hnatiuc**, R. Burlica, E. Hnatiuc, J. -L. Brisset, I. Neacsu, M. Niculaea, *The wine treatment by DBD discharges*, HAKONE XI, XIth INTERNATIONAL SYMPOSIUM ON HIGH PRESSURE, LOW TEMPERATURE PLASMA CHEMISTRY, September 7 – 12, Ile d'Oleron, France, <http://www.hakone11.univ-tlse.fr/spip.php?rubrique35> (**Rn24=20/6=3.33**)
12. J. -L. Brisset, D. Moussa, A. Doubla, **B. Hnatiuc**, G. Kamgang Youbi, J. -M. Herry, M. Naitali, M. -N. Bellon-Fontaine, *Chemical Reactions Induced by discharges and temporal post-discharges in water treated by Gliding Arc in humid air*, HAKONE XI, XIth INTERNATIONAL SYMPOSIUM ON HIGH PRESSURE, LOW TEMPERATURE PLASMA CHEMISTRY, September 7 – 12, Ile d'Oleron, France, <http://www.hakone11.univ-tlse.fr/spip.php?rubrique35> (**Rn25=20/8=2.5**)
13. **B. Hnatiuc**, S. Pellerin, E. Hnatiuc, J. Chapelle, *Experimental analysis of a double spark ignition system*, 13-th International Congress on Plasma Physics, ICPP2006, May 22-26, 2006, Kiev, Ukraine (**Rn26=20/4=5**)
14. **B. Hnatiuc**, R. Burlică, S. Pellerin, E. Hnatiuc, *Gliding spark used for ignition system*, XVI-th Symposium on Physics of Switching Arc, FSO 2005, pag. 92, september 2005, Brno, Czech Republic, ISBN 80-214-2931-3 (**Rn27=20/4=5**)
15. **B. Hnatiuc**, S. Pellerin, E. Hnatiuc, J. Chapelle, *Electrical and optical analysis of a double spark ignition system*, International Symposium on Plasma Chemistry, ISPC17, p. 1022, August 7 – 12, 2005, Toronto, Canada (**Rn28=20/4=5**)
16. Hnatiuc E.,Brisset J-L, **Hnatiuc B.**, Burlica R., *Plasma sources for electrochemical reactors*, Proc. IUPAC Congress ISPC 16, Taormina, Italia, iunie 2003, p. 745 (**Rn29=20/4=5**)
17. **B. Hnatiuc**, E. Hnatiuc, R. Burlica, *L'appréciation de quelques paramètres des décharges électriques de type GlidArc utilisées pour la dépollution des gaz contenant de produits à base de toluene*, september 2003, SIELMEN 2003, Chisinau, Moldova Republic, ISBN 9975-9704-9-4 (**Rn30=20/3=6.66**)
18. Hnatiuc E.,Brisset J-L, **Hnatiuc B.**, Burlica R., Rusu I., *New trends in plasma sources, Plasma reactor engineering and applications of non-thermal plasmachemical reactors*, Proc. XV th FSO, Brno, 22 septembrie 2003 (**Rn31=20/5=4**)
19. E. Hnatiuc, B. Cheron, **B. Hnatiuc**, R. Burlica, J. -L. Brisset, *Cold plasma electrochemical reactor with rotary discharge*, HAKONE International Conference, July 2002, Tallin, Estonia (**Rn32=20/5=4**)

b. Nationale, inclusive cotate ISI sau indexate in baze de date internationale

1. Astanei D, **Hnatiuc B.**, *Surse de alimentare in impulsuri folosite pentru descarcari electrice de tip plasma rece (Pulse control power supplies used for cold plasma type electrical discharges)*, Paper Volume of the National Student Scientific Symposium ElStudIS 2010, pp. 9-14, ISBN: 978-606-13-0066-2, Iasi, 26-27 October 2010

5. Brevete de inventie

- B1. A. Czernichowski, **B. Hnatiuc**, P. Pastva, A. Ranaivosoloarimanana, "Générateurs et circuits électriques pour alimenter des décharges instables de haute tension", Patent français N° 00/15537 et 2817444, 2000, France, US2002093294, 2001, USA (**RB1=25/4=6.25**)

B2. **B. Hnatiuc**, P. Leonte, "Transformator de impulsuri cu flux magnetic ortogonal", Nr. 117223B, OSIM România, 2000 (RB2=25/2=12.5)

B3. E. Hnatiuc, **B. Hnatiuc**, "Sistem multielectrod pentru realizarea reactoarelor electrochimice cu plasmă rece și circuit pentru comanda și reglarea funcționării acestuia", Nr. 112225B, OSIM România, 1996 (RB3=25/2=12.5)

B4. R. Burlica, E. Hnatiuc, **B. Hnatiuc**, *DISPOZITIV CU PLASMĂ RECE ȘI ELECTROZI NESIMETRICI DESTINAT REFORMĂRII COMPUȘILOR ORGANICI ÎN VEDEREA OBȚINERII HIDROGENULUI*, BREVET OSIM RO128078-A2, 2013 (RB4=25/3=8.33)

6. Proiecte de cercetare – dezvoltare – inovare

a) Obtinute prin competitive pe baza de contract / grant in tara / strainatate

Pn1. Membru in colectivul de cercetare in cadrul unui program de tip PCE Idei nr. 977 / 2009, cu titlul « Studiul producerii hidrogenului prin folosirea unor tehnologii cu plasma rece », 2009 – 2011

Pn2. Membru in colectivul de cercetare in cadrul unui program de tip Grant A cod CNCSIS 262, 2007-2008, cu titlul « Cercetari privind optimizarea sistemelor electromagnetice in care intervin probleme cuplate cu ajutorul metodei elementelor finite si al algoritmilor genetici »

Pn3. Membru in colectivul de cercetare in cadrul unui program de tip Cercetare de Excelenta, CEEX (nr. 117/31.07.2006 capartener 1) cu titlul « Stabilizarea si conditionarea vinurilor prin tratament cu plasma rece », 2006 – 2008

Pn4. Membru in colectivul de cercetare pentru un Program de cercetare de tip GRANT T cu titlul « Reactoare cu plasmă rece utilizate pentru depoluarea aerului și a apei », desfășurat cu Ministerul de resort din România (MCT), 2000 – 2001

Pi1. Director de proiect de tip Colaborare bilaterală cu Franța nr. 771 / 30.06.2014 cu titlul "Tratament și prevenție a Biofoulingului cu ajutorul plasmei non-termice la presiune atmosferică", 2015 - 2016

Pi2. Director de proiect de tip Capacitati – Modulul III, Cooperari bilaterale cu Franta nr. 302 / 22.02.2009, cu titlul « Aplicarea unor descarcari electrice la inalta presiune pentru obtinerea unei combustii de calitate », 2009 – 2010

Pi3. Director de proiect de tip A.U.F., Réseau des chercheurs « Génie des procédés appliqués à l'agroalimentaire », nr. 4453/12.03.2008, Conventia 2092RR813, cu titlul « Application du plasma froid au traitement des eaux de lavage », 2008-2009

Pi4. Membru in colectivul de cercetare pentru un proiect de tip Brancusi, colaborare bilaterală Romania – Franta cu titlul "Système d'allumage par plasma pour moteur automobile", 2003 – 2004, Nr. 06050RC/2004

Pi5. Membru in colectivul de cercetare pentru un proiect la Universitatea din Rouen, Franța, Laboratorul LEICA, încadrul unui program de tip COPIRTECH (FICU) cu tema « Utilizarea reactoarelor electrochimice cu plasmă rece pentru depoluarea soluțiilor », 2001, 2002, ref. PAS23-2001

Cursuri in format electronic

1. Electrotehnica si masini electrice (173 slides, format pdf, ppt)
2. Compatibilitate electromagneticica (312 slides, format pdf, ppt)

3. Offshore Energy Systems (290 slides, format ppt)

Membru in asociatii profesionale: membru SETIS (Societatea Absolventilor de Electrotehnica din Iasi) din anul 2000, membru AGIR (Asociatia Generala a Inginerilor din Romania)

Citări articole și brevete

Articol citat: R. Burlica, K.-Y. Shih, B. Hnatiuc, Locke, B.R., "Hydrogen Generation by Pulsed Gliding Arc Discharge Plasma with Sprays of Alcohol Solutions", *Industrial and Engineering Chemistry Research*, 50, 2011, 9466-9470 (40 citări)

1. Hydrogen production by steam-oxidative reforming of bio-ethanol assisted by Laval nozzle arc discharge (Ci1=5/4=1.25)

C Du, H Li, L Zhang, J Wang, D Huang, M Xiao... - international journal of ..., 2012 - Elsevier

Citat de 36 ori Articole cu conținut similar Toate cele 5 versiuni Citați Salvați

2. Aqueous-Phase Chemistry of Electrical Discharge Plasma in Water and in Gas-Liquid Environments (Ci2=5/4=1.25)

P Lukes, BR Locke, JL Brisset - Plasma Chemistry and ..., 2012 - Wiley Online Library

Citat de 29 ori Articole cu conținut similar Citați Salvați

3. Plasmas for environmental issues: from hydrogen production to 2D materials assembly (Ci3=5/4=1.25)

E Tatarova, N Bundaleska, JP Sarrette... - ... Sources Science and ..., 2014 - iopscience.iop.org

Citat de 20 ori Articole cu conținut similar Toate cele 6 versiuni Citați Salvați

4. Hydrogen production by methanol decomposition using gliding arc gas discharge (Ci4=5/4=1.25)

Y LÜ, W YAN, S HU, B WANG - Journal of Fuel Chemistry and Technology, 2012 - Elsevier

Citat de 12 ori Articole cu conținut similar Toate cele 4 versiuni Citați Salvați

5. Hydrogen production from alcohol reforming in a microwave 'tornado'-type plasma(Ci5=5/4=1.25)

E Tatarova, N Bundaleska, FM Dias... - Plasma Sources ..., 2013 - iopscience.iop.org

Citat de 13 ori Articole cu conținut similar Toate cele 7 versiuni Citați Salvați

6. Renewable hydrogen production by alcohols reforming using plasma and plasma-catalytic technologies: challenges and opportunities(Ci6=5/4=1.25)

CM Du, JM Mo, HX Li - Chemical reviews, 2014 - ACS Publications

Citat de 14 ori Articole cu conținut similar Toate cele 4 versiuni Citați Salvați

7. Application of atmospheric pressure microwave plasma source for hydrogen production from ethanol(Ci7=5/4=1.25)

B Hrycak, D Czylkowski, R Miotk, M Dors... - International Journal of ..., 2014 - Elsevier

Citat de 14 ori Articole cu conținut similar Toate cele 5 versiuni Citați Salvați

8. Hydrogen production from alcohols and ethers via cold plasma: A review(Ci8=5/4=1.25)

F Chen, X Huang, D Cheng, X Zhan - International Journal of Hydrogen ..., 2014 - Elsevier

Citat de 13 ori Articole cu conținut similar Toate cele 4 versiuni Citați Salvați

9. Observation of dynamic behavior of gliding arc discharge(Ci9=5/4=1.25)

F Mitsugi, J Furukawa, T Ohshima, H Kawasaki... - The European Physical ..., 2013 - epjap.org

[Citat de 10 ori Articole cu conținut similar Toate cele 10 versiuni Citați Salvați](#)

10. Steam reforming of ethanol into hydrogen-rich gas using microwave Ar/water “tornado”–Type plasma(Ci10=5/4=1.25)

N Bundaleska, D Tsyganov, E Tatarova, FM Dias... - international journal of ..., 2014 - Elsevier

[Citat de 10 ori Articole cu conținut similar Toate cele 7 versiuni Citați Salvați](#)

11. Plasma reforming of bio-ethanol for hydrogen rich gas production(Ci11=5/4=1.25)

CM Du, JM Mo, J Tang, DW Huang, ZX Mo, QK Wang... - Applied Energy, 2014 - Elsevier

[Citat de 11 ori Articole cu conținut similar Toate cele 7 versiuni Citați Salvați](#)

12. Renewable hydrogen from ethanol by a miniaturized nonthermal arc plasma-catalytic reforming system(Ci12=5/4=1.25)

C Du, D Huang, J Mo, D Ma, Q Wang, Z Mo... - International Journal of ..., 2014 - Elsevier

[Citat de 8 ori Articole cu conținut similar Toate cele 4 versiuni Citați Salvați](#)

13. Hydrogen production from ethanol in nitrogen microwave plasma at atmospheric pressure(Ci13=5/4=1.25)

B Hrycak, D Czylkowski, R Miotk, [M Dors](#)... - Open ..., 2015 - degruyter.com

[Citat de 9 ori Articole cu conținut similar Toate cele 9 versiuni Citați Salvați](#)

14. Hydrogen production by conversion of ethanol using atmospheric pressure microwave plasmas(Ci14=5/4=1.25)

D Czylkowski, B Hrycak, R Miotk, M Jasiński... - International Journal of ..., 2015 - Elsevier

[Citat de 11 ori Articole cu conținut similar Toate cele 4 versiuni Citați Salvați](#)

15. Formation of alcohols and carbonyl compounds from hexane and cyclohexane with water in a liquid film plasma reactor(Ci15=5/4=1.25)

RJ Wandell, S Bresch, K Hsieh... - ... on Plasma Science, 2014 - ieeexplore.ieee.org

[Citat de 7 ori Articole cu conținut similar Toate cele 4 versiuni Citați Salvați](#)

16. Efficient production of hydrogen by DBD type plasma discharges(Ci16=5/4=1.25)

[Y Nishida](#), HC Chiang, TC Chen... - IEEE Transactions on ..., 2014 - ieeexplore.ieee.org

[Citat de 4 ori Articole cu conținut similar Toate cele 7 versiuni Citați Salvați](#)

17. Non-oxidative decomposition of methanol into hydrogen in a rotating gliding arc plasma reactor(Ci17=5/4=1.25)

[H Zhang, X Li, F Zhu, Z Bo](#), K Cen, [X Tu](#) - International Journal of Hydrogen ..., 2015 - Elsevier

[Citat de 8 ori Articole cu conținut similar Toate cele 3 versiuni Citați Salvați](#)

18. Steam Reforming of Dimethyl Ether by Gliding Arc Gas Discharge Plasma for Hydrogen Production(Ci18=5/4=1.25)

W Baowei, SUN Qimei, LÜ Yijun, Y Meilin... - Chinese Journal of ..., 2014 - Elsevier

[Citat de 3 ori Articole cu conținut similar Toate cele 6 versiuni Citați Salvăți](#)

19. Hydrogen production from gaseous fuels by plasmas—a review (Ci19=5/4=1.25)

J Mizeraczyk, K Urashima, M Jasiński... - Int. J. Plasma Environ. ..., 2014 - researchgate.net

[Citat de 6 ori Articole cu conținut similar Citați Salvăți](#)

20. H₂ production by ethanol decomposition with a gliding arc discharge plasma reactor (Ci20=5/4=1.25)

B Wang, W Ge, Y Lü, W Yan - Frontiers of Chemical Science and ..., 2013 - Springer

[Citat de 3 ori Articole cu conținut similar Toate cele 7 versiuni Citați Salvăți](#)

21. Partial oxidation of ethanol using a non-equilibrium plasma(Ci21=5/4=1.25)

X Zhu, T Hoang, LL Lobban, RG Mallinson - international journal of ..., 2014 - Elsevier

[Citat de 6 ori Articole cu conținut similar Toate cele 5 versiuni Citați Salvăți](#)

22. Direct synthesis of ethylene glycol from methanol by dielectric barrier discharge(Ci22=5/4=1.25)

J Zhang, Q Yuan, J Zhang, T Li, H Guo - Chemical Communications, 2013 - pubs.rsc.org

[Citat de 6 ori Articole cu conținut similar Toate cele 4 versiuni Citați Salvăți](#)

23. 滑动弧放电等离子体分解甲醇制氢 (Ci23=5/4=1.25)

吕一军 · 闫文娟 · 胡爽慧, 王保伟 - 燃料化学学报, 2012 - cqvip.com

[Citat de 2 ori Articole cu conținut similar Toate cele 6 versiuni Citați Salvăți](#)

24. Sliding discharges in steam: effects of dielectric surface and hydrocarbon additives on hydrogen, oxygen and hydrogen peroxide generation (Ci24=5/4=1.25)

MA Malik, KH Schoenbach - Journal of Physics D: Applied ..., 2013 - iopscience.iop.org

[Citat de 2 ori Articole cu conținut similar Toate cele 6 versiuni Citați Salvăți](#)

25. Improvement of ethylene epoxidation in low-temperature corona discharge by separate ethylene/oxygen feed (Ci25=5/4=1.25)

T Suttikul, S Yaowapong-aree, H Sekiguchi... - ... and Processing: Process ..., 2013 - Elsevier

[Citat de 1 ori Articole cu conținut similar Toate cele 4 versiuni Citați Salvăți](#)

26. 滑动弧等离子体分解二甲醚制氢(Ci26=5/4=1.25)

王保伟 · 葛文杰, 吕一军 · 孙启梅 · 胡爽慧 - 高校化学工程学报, 2013

[Articole cu conținut similar Toate cele 4 versiuni Citați Salvăți](#)

27. The catalytic effect of H₂ in the dehydrogenation coupling production of ethylene glycol from methanol using a dielectric barrier discharge (Ci27=5/4=1.25)

J Zhang, T Li, D Wang, J Zhang, H Guo - Chinese Journal of Catalysis, 2015 - Elsevier

[Articole cu conținut similar Toate cele 3 versiuni Citați Salvăți](#)

28. Enhanced hydrogen production by methanol decomposition using a novel rotating gliding arc discharge plasma (Ci28=5/4=1.25)

H Zhang, F Zhu, X Li, K Cen, C Du, X Tu - RSC Advances, 2016 - pubs.rsc.org

Citat de 2 ori Articole cu conținut similar Toate cele 2 versiuni Citați Salvați

29. Oxidative pyrolysis reforming of methanol in warm plasma for an on-board hydrogen production (Ci29=5/4=1.25)

HY Lian, XS Li, JL Liu, X Zhu, AM Zhu - International Journal of Hydrogen ..., 2016 - Elsevier

Citați Salvați

30. Plasma Processing Methods for Hydrogen Production (Ci30=5/4=1.25)

J Mizeraczyk, M Jasiński - epjap.org

31. Oxidized Derivatives of n-Hexane from a Water/Argon Continuous Flow Electrical Discharge Plasma Reactor (Ci31=5/4=1.25)

S Bresch, R Wandell, H Wang, I Alabugin... - Plasma Chemistry and ..., 2016 - Springer

32. Study of operation gas flow rate and kinds dependency on atmospheric serpentine plasma (Ci32=3/4=0.75)

S Aoqui, F Mitsugi, H Kawasaki, T Ohsima - ispc-conference.org

33. Characterization of gliding arc discharge with auxiliary electrodes (Ci33=3/4=0.75)

C Haisan, P Kriz, J Cerman, P Spatenka... - 2012 13th International ..., 2012 - infona.pl

34. OBSERVATION OF DYNAMIC BEHAVIOR OF GLIDING ARC DISCHARGE (Ci34=5/4=1.25)

HD Aoqui - Cambridge Univ Press

35. 滑动弧放电等离子体重整甲烷关键技术分析(Ci35=5/4=1.25)

张浩，朱凤森，李晓东，杜长明，薄拯，岑可法 - 高电压技术, 2015

36. Liquid fuel reforming using microwave plasma at atmospheric pressure (Ci36=5/4=1.25)

R Miotk, B Hrycak, D Czylkowski, M Dors... - Plasma Sources ..., 2016 - iopscience.iop.org

37. Environmental Applications of Electrical Discharge Plasma with Liquid Water--A Mini Review-- (Ci37=5/4=1.25)

BR Locke - iesj.org

38. Microwave plasma-based method of hydrogen production via combined steam reforming of methane (Ci38=5/4=1.25)

D Czylkowski, B Hrycak, M Jasiński, M Dors... - Energy, 2016 - Elsevier

39. 介质阻挡放电甲醇脱氢偶联一步合成乙二醇反应中氢气的催化作用 (Ci39=5/4=1.25)

张婧，李腾，王东江，张家良，郭洪臣 - 催化学报, 2014 - chxb.cn

40. The catalytic effect of H₂ in the dehydrogenation coupling production of ethylene glycol from methanol using a dielectric barrier discharge (Ci40=5/4=1.25)

J Zhang, T Li, D Wang, J Zhang, H Guo - chxb.cn

Articol citat : **EFFECT OF ELECTRICAL CURRENT ON H₂/H₂O₂ GENERATION IN NON-THERMAL PLASMA GLIDING ARC REACTORS**

By: Burlica, Radu; Hnatiuc, Bogdan; Hnatiuc, Eugen; et al.
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 10 Issue: 4 Pages: 579-583 Published: APR 2011 (1 citare)

41. PLASMACHEMICAL DISSOCIATION AND DEGRADATION OF NAPHTOL GREEN B COMPLEX (Ci41=5/4=1.25)

By: Laminsi, Samuel; Acayanka, Elie; Ndifon, Peter Teke; et al.
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 11 Issue: 8 Pages: 1461-1466 Published: AUG 2012

Articol citat : **Reactions Induced by Electrical Discharges in Pollutant Abatement and Bacterial Inactivation**

By: Moussa, D.; Naitali, M.; Herry, J. M.; Hnatiuc B., Brisset J.-L.
Book Group Author(s): Transilvania Univ Brasov, Fac Elect Engn & Comp Sci
Conference: 12th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, ROMANIA Date: MAY 20-21, 2010
Sponsor(s): IEEE, IAS; IEEE, PELS; IEEE, IES
OPTIM 2010: PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT, PTS I-IV Book Series: Proceedings of the International Conference on Optimization of Electrical and Electronic Equipment Pages: 1329-1335 Published: 2010 (1 citare)

42. Degradation of palm oil refinery wastewaters by non-thermal gliding arc discharge at atmospheric pressure (Ci42=5/5=1)

By: Mountapmbeme-Kouotou, P.; Laminsi, S.; Acayanka, E.; et al.
ENVIRONMENTAL MONITORING AND ASSESSMENT Volume: 185 Issue: 7 Pages: 5789-5800 Published: JUL 2013

Articol citat : **The study of an electric spark for igniting a fuel mixture**

By: Hnatiuc, B.; Pellerin, S.; Hnatiuc, E.; et al.
Book Group Author(s): Transilvania Univ Brasov, Fac Elect Engn & Comp Sci
Conference: 12th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, ROMANIA Date: MAY 20-21, 2010
Sponsor(s): IEEE, IAS; IEEE, PELS; IEEE, IES , PTS I-IV Book Series: Proceedings of the International Conference on Optimization of Electrical and Electronic Equipment Pages: 1361-1366 Published: 2010 (4 citări)

43. Modeliranje i operativno testiranje modulacije širine impulsa kod vremena ubrizgavanja za motor paljen pomoću svjećice (Ci43=5/4=1.25)

I Hiticas, D Marin, L Mihon - Tehnički vjesnik, 2013 - hrak.srce.hr

44. MODELLING AND OPERATIONAL TESTING OF PULSE-WIDTH MODULATION AT INJECTION TIME FOR A SPARK-IGNITION ENGINE. (Ci44=5/4=1.25)

I Hiticas, D Marin, L Mihon - Tehnicki vjesnik/Technical ..., 2013 - search.ebscohost.com

45. 基于 ECT 模块的发动机曲轴转角定位技术研究(Ci45=5/4=1.25)

邹斌，陈鹏，颜伏伍 - 武汉理工大学学报: 信息与管理工程版, 2014 - cqvip.com

针对发动机曲轴转角定位失准问题, 分析了脉宽测量和边沿延时失准现象, 提出了避免发动机曲轴转角定位失准的方法. 首先, 基于ECT 模块输入捕捉功能分析脉宽测量原理, 运用输入捕捉值判断法和主定时器停止法避免脉宽测量不准确现象. 其次, 基于ECT

46. SECURITY ENABLED CAPACITIVE DISCHARGE IGNITION USING AVR MICROCONTROLLER (Ci46=5/4=1.25)

MK Chauhan, R Singh - Citeseer

Articol citat – B. Hnatiuc, S. Pellerin, J. Chapelle, E. Hnatiuc, *Experimental analysis of a double spark ignition system*, Czechoslovak Journal of Physics, No. 6157, 56(8), 851-868, 2006, included by European Physical Journal C (IP=3,63/2011), 6 citări

47. Optical and electrical diagnostics of a spark-plug discharge in air (Ci47=5/4=1.25)

By: Oliveira, C.; Reis, J. L., Jr.; Souza-Correia, J. A.; et al.

JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 45 Issue: 25 Article Number: 255201 Published: JUN 27 2012



48. Influence of the energy dissipation rate in the discharge of a plasma synthetic jet actuator (Ci48=5/4=1.25)

By: Belinger, A.; Hardy, P.; Barricau, P.; et al.

JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 44 Issue: 36 Article Number: 365201 Published: SEP 14 2011

49. Chemical plasmas for pretreatment of lignocellulosic materials aiming fermentable free sugars: Quest for important cross section data (Ci49=3/4=0.75)

Authors: J. Amorim, C. Oliveira, J. A. Souza-Corrêa, M. T. B. Pimenta, E. M. de Oliveira, A. P. P. Natalense, M. T. do N. Varella, M. A. P. Lima

Source: 30thICPIG, August 28th- September 2nd, 2011, Belfast, UK

50. Ignition coil primary current singularity detection algorithm (Ci50=5/4=1.25)

Authors: Li Mutian, Zhao Yongping, Wang Qisong, Harbin Institute of Technology Chinese Journal of Scientific Instrument, 2011, 32 (9)

51. Ignition coil insulation fault detection algorithm (Ci51=5/4=1.25)

Authors: Mutian Li, Yongping Zhao, Qisong Wang, Harbin Institute of Technology

52. Synthesis and characterisation of doped silicon nanoparticles by hot wire thermal catalytic and spark pyrolysis (Ci52=3/4=0.75)

MR Scriba - 2010 - core.ac.uk

Brevet citat – A. Czernichowski, B. Hnatiuc, P. Pastva, A. Ranaivosoloarimanana, "Générateurs et circuits électriques pour alimenter des décharges instables de haute tension", Patent français N° 00/15537 et 2817444, 2000, France, US2002093294, 2001, USA

"Systems and method for ignition and reignition of unstable electrical discharges" (Ci 53 – Ci66 =1.25) 14 citări

Inventors: Albin Czernichowski, Bogdan Hnatiuc, Peter Pastva, Albert Ranaivosoloarimanana

Original Assignee: Ceramatec, Inc.
Primary Examiner: Douglas W. Owens

Secondary Examiner: Ephrem Alemu

Current U.S. Classification: 315/335; 219/383

Patent	number:	7417385
Filing date:	Jul	2005
Issue date:	Aug	2008
Application number:	<u>11/186,711</u>	

Citeazăbrevetul	Data înregistrării	Data publicării	Solicitant	Titlul
53. <u>US7459594</u> (Ci53)	27 Iun 2005	2 Dec 2008	Ceramatec, Inc.	Plasma-catalytic conversion of carbonaceous matters
54. <u>US7467612</u> (Ci54)	19 Apr 2006	23 Dec 2008	Knite, Inc.	Method and apparatus for operating traveling spark igniter at high pressure
55. <u>US7615931</u> (Ci55)	2 Mai 2005	10 Nov 2009	International Technology Center	Pulsed dielectric barrier discharge
56. <u>US7955567</u> (Ci56)	23 Aug 2007	7 Iun 2011	Igor Matveev	Triple helical flow vortex reactor improvements
57. <u>US7973262</u> (Ci57)	5 Apr 2007	5 Iul 2011	Igor Matveev	Powerplant and method using a triple helical vortex reactor
58. <u>US8186321</u> (Ci58)	26 Nov 2008	29 Mai 2012	Knite, Inc.	Method and apparatus for operating traveling spark igniter at high pressure
59. <u>US8221689</u> (Ci59)	28 Apr 2006	17 Iul 2012	Atlantic Hydrogen Inc.	Decomposition of natural gas or methane using cold arc discharge

Citează brevetul	Data înregistrării	Data publicării	Solicitant	Titlu
60. US8268136 (Ci60)	19 Sept 2008	18 Sept 2012	Sept McCutchen, Co.	Electrohydraulic and shear cavitation radial counterflow liquid processor
61. US8344627 (Ci61)	19 Dec 2011	1 Ian 2013	International Technology Center	Pulsed dielectric barrier discharge
62. US8350190 (Ci62)	22 feb. 2008	8 Ian 2013	Ceramatec, Inc.	Ceramic electrode for gliding electric arc
63. US8460409 (Ci63)	7 Aug 2009	11 Aug 2013	Iun Ceramatec, Inc.	Plasma-catalyzed fuel reformer
64. DE112009000305T5 (Ci64)	9 feb. 2009	27 feb. 2011	Ian McCutchen Co., Portland	RadialeGegenstrom-Scher-Elektrolyse

65. **Gliding arc discharge in the potato pathogen *Erwinia carotovora* subspecies *spatoseptica*: Mechanism of lethal action and effect on membrane-associated molecules (Ci65 = 1.25)**

Author(s): Moreau, M; Feuilloley, MGJ; Veron, W, et al.
 Source: APPLIED AND ENVIRONMENTAL MICROBIOLOGY Volume: 73 Pages: 5904-5910 Published: 2007, Published online 2007 July 20. doi: 10.1128/AEM.00662-07

66. **Non-thermal plasma technologies: New tools for bio-decontamination (Ci66 = 1.25)**

Author(s): Moreau, M; Orange, N; Feuilloley, MGJ
 Source: BIOTECHNOLOGY ADVANCES Volume: 26 Issue: 6 Pages: 610-617
 Published: 2008

Articol citat: A. Czernichowski, P. Czernichowski, Z. Ferenc, B. Hnatiuc, P. Pastva, "Glidarc-I Assisted destruction of toluene vapors from effluvia", oral and poster presentation Conference: 14th Int. Symp. on Plasma Chemistry Location: Prague, Czech Republic Date: August 2-6 ; 1999 (1 citare)

67. **AC-AC PWM voltage controller supplying arc receiver (Ci67 = 1)**

Author(s): Kandyba, Andrzej; Hyla, Marian
 Source: PRZEGŁAD ELEKTROTECHNICZNY Volume: 87 Issue: 11 Pages: 52-55
 Published: 2011

Articol citat: E. Hnatiuc, B. Hnatiuc, A. Czernichowski, M. Cernat, "The Influence of the Distance between Electrodes to Electrical Performances for an Electrochemical Reactor GlidarcType", Proceedings of International Conference FSO '98, Brno, Czech Republic (1 citare)

68. **Organic dye removal from aqueous solution by glidarc discharges (Ci68 = 1.25)**

Authors: Radu Burlica, Michael J. Kirkpatrick, Wright C. Finney, Ronald J. Clark and Bruce R. Locke, Journal of Electrostatics, Volume 62, Issue 4, November 2004, Pages 309 – 321

Articol citat: E. Hnatiuc, A. Czernichowski, J-M. Cormier, P. Leonte, B. Hnatiuc, "New Solutions for the Increasing of Performances of the Cold Plasma Reactors Used for Air Depollution", Proceedings of International Conference FSO '96, Brno, Czech Republic, 1996 (1 citare)

69. Organic dye removal from aqueous solution by glidarc discharges

Authors: Radu Burlica, Michael J. Kirkpatrick, Wright C. Finney, Ronald J. Clark and Bruce R. Locke, Journal of Electrostatics, Volume 62, Issue 4, November 2004, Pages 309 – 321 (Ci69 = 1)

Articol citat: B. Hnatiuc, D. Astanei, S. Pellerin, N. Cerqueira, M. Hnatiuc, Diagnostic of plasma produced by a spark plug at atmospheric pressure: reduced electric field and vibrational temperature, Contributions to Plasma Physics Journal, 24 March, 2014, DOI: 10.1002/ctpp.201300059, Online ISSN: 1521-3986 (4 citări)

70. Air spark-like plasma source for antimicrobial NOx generation (Ci70 = 1)

MJ Pavlovich, T Ono, C Galleher, B Curtis... - Journal of Physics D: ..., 2014 - iopscience.iop.org

71. Time-Resolved X-Ray Radiography of Spark Ignition Plasma (Ci71 = 1)

A Kastengren, D Duke, A Swantek, J Sevik... - ... Journal of Engines, 2016 - papers.sae.org

72. An Exploration in Fiber Optic Sensors (Ci72 = 0.6)

FA Seng - 2016 - scholarsarchive.byu.edu

73. Optical Sensing of Electric Fields in Harsh Environments (Ci73 = 1)

F Seng, N Stan, R King, C Josephson... - Journal of Lightwave ..., 2016 - ieeexplore.ieee.org

Articol citat: J. -L. Brisset, D. Moussa, A. Doubla, E. Hnatiuc, B. Hnatiuc, G. Kamgang Youbi, J. -M. Herry, M. Naitali, M. -N. Bellon Fontaine, Chemical reactivity of discharges and temporal post-discharges in plasma treatment of aqueous media : examples of gliding discharge treated solutions, Ind. Eng. Chem. Res. 2008, 47, p. 5761 - 5781

74. Review of the methods to form hydrogen peroxide in electrical discharge plasma with liquid water (Ci74 = 0.55)

BR Locke, KY Shih - Plasma Sources Science and Technology, 2011 - iopscience.iop.org

75. Review on electrical discharge plasma technology for wastewater remediation (Ci75 = 0.55)

B Jiang, J Zheng, S Qiu, M Wu, Q Zhang, Z Yan... - Chemical Engineering ..., 2014 - Elsevier

76. Aqueous-phase chemistry and bactericidal effects from an air discharge plasma in contact with water: evidence for the formation of peroxy nitrite through a pseudo- ... (Ci76 = 0.55)

P Lukes, E Dolezalova, I Sisrova... - ... Sources Science and ..., 2014 - iopscience.iop.org

77. Simultaneous removal of NO and SO₂ from coal-fired flue gas by UV/H₂O₂ advanced oxidation process (Ci77 = 0.55)

Y Liu, J Zhang, C Sheng, Y Zhang, L Zhao - Chemical Engineering Journal, 2010 - Elsevier

78. Formation of ROS and RNS in Water Electro-Sprayed through Transient Spark Discharge in Air and their Bactericidal Effects (Ci78 = 0.55)

Z Machala, B Tarabova, K Hensel... - Plasma Processes ..., 2013 - Wiley Online Library

79. Combined effects of long-living chemical species during microbial inactivation using atmospheric plasma-treated water (Ci79 = 0.55)

M Naïtali, G Kamgang-Youbi, JM Herry... - Applied and ..., 2010 - Am Soc Microbiol

80. Comparison of Jatropha curcas shells in natural form and treated by non-thermal plasma as biosorbents for removal of Reactive Red 120 textile dye from aqueous ... (Ci80 = 0.55)

LDT Prola, E Acayanka, EC Lima, CS Umpierres... - Industrial Crops and ..., 2013 - Elsevier

81. Bacteria inactivation using low power pulsed gliding arc discharges with water spray (Ci81 = 0.55)

R Burlica, RG Grim, KY Shih, D Balkwill... - Plasma Processes ..., 2010 - Wiley Online Library

82. Destruction of acenaphthene, fluorene, anthracene and pyrene by a dc gliding arc plasma reactor (Ci82 = 0.55)

L Yu, X Tu, X Li, Y Wang, Y Chi, J Yan - Journal of hazardous materials, 2010 - Elsevier

83. Coupling gliding discharge treatment and catalysis by oyster shell powder for pollution abatement of surface waters (Ci83 = 0.55)

E Njoyim, P Ghogomu, S Laminsi, S Nzali... - Industrial & ..., 2009 - ACS Publications

84. Green Approach for Wastewater Treatment: Degradation and Mineralization of Aqueous Organic Pollutants by Discharge Plasma (Ci84 = 0.55)

PMK Reddy, C Subrahmanyam - Industrial & Engineering ..., 2012 - ACS Publications

85. Dynamic and spectroscopic characteristics of atmospheric gliding arc in gas-liquid two-phase flow (Ci85 = 0.55)

X Tu, L Yu, JH Yan, KF Cen... - Physics of Plasmas (1994- ...), 2009 - scitation.aip.org

86. Streamer-like electrical discharges in water: part II. Environmental applications (Ci86 = 0.55)

RP Joshi, SM Thagard - Plasma Chemistry and Plasma Processing, 2013 - Springer

87. Aqueous-Phase Chemistry of Electrical Discharge Plasma in Water and in Gas-Liquid Environments (Ci87 = 0.55)

[P Lukes](#), [BR Locke](#),... - Plasma Chemistry and ..., 2012 - Wiley Online Library

88. Degradation of diclofenac in water using a pulsed corona discharge (Ci88 = 0.55)

D Dobrin, [C Bradu](#), M Magureanu... - Chemical engineering ..., 2013 - Elsevier

89. Pulsed corona discharge for degradation of methylene blue in water (Ci89 = 0.55)

M Magureanu, [C Bradu](#), D Piroi, NB Mandache... - Plasma Chemistry and ..., 2013 - Springer

90. A mass spectrometry study of alkanes in air plasma at atmospheric pressure (Ci90 = 0.55)

E Marotta, C Paradisi - Journal of the American Society for Mass ..., 2009 - Elsevier

91. Streamer-like electrical discharges in water: Part I. Fundamental mechanisms (Ci91 = 0.55)

[RP Joshi](#), SM Thagard - Plasma Chemistry and Plasma Processing, 2013 - Springer

92. Pollution control of surface waters by coupling gliding discharge treatment with incorporated oyster shell powder (Ci92 = 0.55)

E Njoyim-Tamungang, S Laminsi, P Ghogomu... - Chemical engineering ..., 2011 - Elsevier

93. Glow discharge plasma electrolysis for nanoparticles synthesis (Ci93 = 0.55)

TA Kareem, AA Kaliani - Ionics, 2012 - Springer

94. Influence of peroxy nitrite in gliding arc discharge treatment of alizarin Red S and postdischarge effects (Ci94 = 0.55)

DR Merouani, [F Abdelmalek](#), [MR Ghezzar](#)... - Industrial & ..., 2013 - ACS Publications

95. Synthesis and swelling behaviors of P (AMPS-co-AAc) superabsorbent hydrogel produced by glow-discharge electrolysis plasma (Ci95 = 0.55)

[J Yu](#), Y Pan, Q Lu, [W Yang](#), J Gao, [Y Li](#) - Plasma Chemistry and Plasma ..., 2013 - Springer

96. Direct impact and delayed post-discharge chemical reactions of Fell complexes induced by non-thermal plasma (Ci96 = 0.55)

S Laminsi, [E Acayanka](#), [S Nzali](#), PT Ndifon... - ... and Water Treatment, 2012 - Taylor & Francis

97. Plasma-assisted synthesis of TiO₂ nanorods by gliding arc discharge processing at atmospheric pressure for photocatalytic applications (Ci97 = 0.55)

[E Acayanka](#), [AT Djowe](#), S Laminsi... - Plasma Chemistry and ..., 2013 - Springer

98. Dynamics, OH distributions and UV emission of a gliding arc at various flow-rates investigated by optical measurements (Ci98 = 0.55)

[J Zhu](#), [Z Sun](#), [Z Li](#), [A Ehn](#), [M Aldén](#)... - Journal of Physics D: ..., 2014 - iopscience.iop.org

99. Retraction: Plasma Acid: Water Treated by Dielectric Barrier Discharge (Ci99 = 0.55)

N Shainsky, D Dobrynin, [U Ercan](#)... - Plasma processes ..., 2012 - Wiley Online Library

100. Atmospheric pressure plasma jet for decontamination purposes (Ci100 = 0.55)

[J Pawłat](#) - The European Physical Journal Applied Physics, 2013 - epjap.org

101. Treatment of 4-chlorobenzoic acid by plasma-based advanced oxidation processes (Ci101 = 0.55)

O Lesage, L Falk, M Tatoulian, D Mantovani... - ... and Processing: Process ..., 2013 - Elsevier

102. Effects of the voltage and current waveforms and discharge power on hydrogen peroxide formation in water-spray gliding arc reactors (Ci102 = 0.55)

R Burlica, WC Finney, BR Locke - IEEE Transactions on ..., 2013 - ieeexplore.ieee.org

103. Removal of model pollutants in aqueous solution by gliding arc discharge: determination of removal mechanisms. Part I: experimental study (Ci103 = 0.55)

D Iya-Sou, S Laminsi, S Cavadias, S Ognier - Plasma Chemistry and ..., 2013 - Springer

104. A comparative study of the time-resolved decomposition of methylene blue dye under the action of a nanosecond repetitively pulsed DBD plasma jet using liquid ... (Ci104 = 0.55)

JE Foster, G Adamovsky, SN Gucker... - IEEE Transactions on ..., 2013 - ieeexplore.ieee.org

105. A review of plasma-liquid interactions for nanomaterial synthesis (Ci105 = 0.55)

Q Chen, J Li, Y Li - Journal of Physics D: Applied Physics, 2015 - iopscience.iop.org

106. Plasma-chemical and photo-catalytic degradation of methyl orange (Ci106 = 0.55)

B Benstaali, N Al-Bastaki, A Addou... - ... of Environment and ..., 2013 - inderscienceonline.com

107. 低温等离子体技术处理难降解有机废水的研究进展 (Ci107 = 0.55)

屈广周, 李杰, 梁东丽, 曲东, 黄懿梅 - 化工进展, 2012 - cqvip.com

高压放电能够产生低温等离子体, 可引起多种物理和化学效应. 该技术处理废水具有高能电子, 紫外光, O₃ 等多因素的综合作用, 是集光, 电, 化学等多种氧化于一体的新型水处理技术, 具有良好的发展前景. 本文介绍了低温等离子体技术处理难降解有机废水的作用过程及其机理,

108. Degradation of palm oil refinery wastewaters by non-thermal gliding arc discharge at atmospheric pressure (Ci108 = 0.55)

P Mountapbeme-Kouotou, S Laminsi... - Environmental ..., 2013 - Springer

109. 滑动弧放电等离子体在废水处理领域的研究 (Ci109 = 0.55)

张路路, 杜长明, 谭中兴, 熊亚 - 环境工程, 2009 - cnki.com.cn

[摘要]: 对近年来滑动弧放电等离子体在水处理方面的研究现况进行了综述. 阐述了滑动弧放电等离子体产生的基本原理和废水处理的基本机理, 以及活性粒子的研究状况; 介绍了两种基本的滑动弧放电反应器及其发展情况; 探讨了目前滑动弧等离子体在废水方面的

110. Plasmachemical dissociation and degradation of naphtol Green B Complex (Ci110 = 0.55)

[S Laminsi, E Acayanka, PT Ndifon, AD Tiya...](#) - Env Eng Manag ..., 2012 - researchgate.net

111. Fabrication of Boron Nitride Nanotube–Gold Nanoparticle Hybrids Using Pulsed Plasma in Liquid (Ci111 = 0.55)

S Ponraj, [Z Chen, LH Li](#), JS Shankaranarayanan... - Langmuir, 2014 - ACS Publications

112. New prototype for the treatment of falling film liquid effluents by gliding arc discharge part I: Application to the discoloration and degradation of anthraquinonic Acid ... (Ci112 = 0.55)

[MR Ghezzar, N Saïm, S Belhachemi...](#) - ... and Processing: Process ..., 2013 - Elsevier

113. Cathodic contact glow discharge electrolysis for the degradation of liquid ammonia solutions (Ci113 = 0.55)

[A Allagui, N Brazeau, H Alawadhi...](#) - Plasma Processes ..., 2015 - Wiley Online Library

114. Degradation of dithizone by non thermal quenched plasma of gliding arc type (Ci114 = 0.55)

[E Acayanka, S Laminsi, PT Ndifon...](#) - Journal of Advanced ..., 2013 - ingentaconnect.com

115. Possibility of Atmospheric Pressure Plasma Jet Application in Decontamination of Heat Sensitive Surfaces (Ci115 = 0.55)

[J Pawłat](#) - Transactions of the Materials Research Society of ..., 2013 - jlc.jst.go.jp

116. Plasma-catalytic degradation of anthraquinonic acid green 25 in solution by gliding arc discharge plasma in the presence of tin containing aluminophosphate ... (Ci116 = 0.55)

[H Hentit, MR Ghezzar, M Womes, JC Jumas...](#) - Journal of Molecular ..., 2014 - Elsevier

117. Plasma-chemical and photo-catalytic degradation of bromophenol blue (Ci117 = 0.55)

SA Djepang, S Laminsi, E Njoyim-Tamungang... - Chemical and Materials ..., 2014 - hrpub.org

118. Synergetic effect of gliding arc discharge treatment and biosorption for removal of nitrophenene and glycine from aqueous solution (Ci118 = 0.55)

D Abia, [S Nzali, E Acayanka, GY Kamgang...](#) - Journal of Industrial and ..., 2015 - Elsevier

119. Measurements of 3D slip velocities and plasma column lengths of a gliding arc discharge (Ci119 = 0.55)

[J Zhu, J Gao, A Ehn, M Aldén, Z Li, D Moseev...](#) - Applied Physics ..., 2015 - scitation.aip.org

120. Decontamination of waterborne chemical pollutants by using atmospheric pressure nonthermal plasma: a review (Ci120 = 0.55)

M Hijosa-Valsero, R Molina, [A Monràs...](#) - Environmental ..., 2014 - Taylor & Francis

121. Investigation of the antimicrobial activity at safe levels for eukaryotic cells of a low power atmospheric pressure inductively coupled plasma source (Ci121 = 0.55)

[D Barbieri, M Boselli, F Cavrini, V Colombo...](#) - ..., 2015 - scitation.aip.org

122. Assessment of a dielectric barrier discharge plasma reactor at atmospheric pressure for the removal of bisphenol A and tributyltin (Ci122 = 0.55)

M Hijosa-Valsero, R Molina... - Environmental ..., 2014 - Taylor & Francis

123. Note: Gliding arc discharges with phase-chopped voltage supply for enhancement of energy efficiency in volatile organic compound decomposition (Ci123 = 0.55)

Z Bo, E Wu, J Yan, Y Chi, K Cen - Review of Scientific Instruments, 2013 - scitation.aip.org

124. New prototype for the treatment of falling film liquid effluents by gliding arc discharge part II: plasmacatalytic activity of TiO₂ thin film deposited by magnetron Sputtering (Ci124 = 0.55)

N Saïm, MR Ghezzar, C Guyon, F Abdelmalek... - ... and Processing: Process ..., 2015 - Elsevier

125. Plasma Acid Production in a Gliding Arc Plasmatron (Ci125 = 0.55)

RD Robinson, K Gutsol, A Rabinovich... - Plasma ..., 2012 - dl.begellhouse.com

126. Radical-Initiated Decoloration of Methylene Blue in a Gas-Liquid Multiphase System Via DC Corona Plasma (Ci126 = 0.55)

X Liu, H Zhang, D Qin, Y Yang, Y Kang, F Zou... - Plasma Chemistry and ..., 2015 - Springer

127. Non-Thermal Plasma in Contact with Water: The Origin of Species (Ci127 = 0.55)

Y Gorbanev, D O'Connell... - Chemistry—A European ..., 2016 - Wiley Online Library

128. 辉光放电电解等离子体制备聚丙烯酸/蒙脱土水凝胶及性能测试(Ci128 = 0.55)

陆泉芳，李芸，杨格格，俞洁，杨武 - 化工新型材料, 2013 - airitilibary.com

在水溶液中，以蒙脱土(MMT) 和丙烯酸(AA) 为原料，N, N'-亚甲基双丙烯酰胺(MBA) 为交联剂，用辉光放电电解等离子体(GDEP) 技术一步制备聚丙烯酸/蒙脱土(PAA/MMT) 高吸水性水凝胶。探讨了GDEP 引发聚合机理和溶胀动力学行为，研究了pH 和盐溶液浓度对水凝胶平衡溶胀率的

129. 辉光放电电解等离子体法制备 VMT/P (AMPS-co-AA) 复合高吸水树脂(Ci129 = 0.55)

陆泉芳，庞二牛，俞洁，张海涛，李芸 - 精细化工, 2015 - 万方数据资源系统

摘要：在水溶液中，以蛭石(VMT)，2-丙烯酰胺-2-甲基丙磺酸(AMPS) 和丙烯酸(AA) 为原料，N, N'-亚甲基双丙烯酰胺(MBA) 为交联剂，用辉光放电电解等离子体(GDEP) 引发制备蛭石/聚(2-丙烯酰胺-2-甲基丙磺酸-co-丙烯酸)[VMT/P (AMPS-co-AA)] 复合高吸水树脂。考察了放电电压，

130. Plasma-Liquid Interaction: a New Way to Synthesize Nanomaterials (Ci130 = 0.55)

Q Chen, J Li, Y Li, S Yang, X Zhang - 2014 - cds.cern.ch

131. Contact glow discharge electrolysis: its origin, plasma diagnostics and non-faradaic chemical effects (Ci131 = 0.55)

SKS Gupta - Plasma Sources Science and Technology, 2015 - iopscience.iop.org

132. Non-Thermal Plasma Induced Total Mineralization of Glyphosate in Water in the Presence of Iron II Ions (Ci132 = 0.55)

M Fouodjouo, S Laminsi, GY Kamgang... - Journal of the Brazilian ..., 2015 - SciELO Brasil

133. Conversion of tetrachloromethane in large scale gliding discharge reactor (Ci133 = 0.55)

M Młotek, E Reda, K Krawczyk - Reactions, 2015 - degruyter.com

134. The role of chloride ions in plasma-activated water treatment processes (Ci134 = 0.55)

G Haghigat, A Sohrabi, PM Shaibani... - ... : Water Research & ..., 2017 - pubs.rsc.org

135. A gliding discharge reactor supplied by a ferro-resonance system for liquid toluene decomposition (Ci135 = 0.55)

M Młotek, E Reda, E Reszke, B Ulejczyk... - ... Research and Design, 2016 - Elsevier

136. Estudo químico da degradação do corante alaranjado de metila por plasma frio de descarga elétrica de alta tensão (Ci136 = 0.33)

BM Cadorin - 2016 - repositorio.ufsc.br

137. TREATMENT OF MERCAPTANS BY HUMID AIR PLASMA: APPLICATION IN THE DECONTAMINATION OF AN AQUEOUS POLLUTED INDUSTRIAL EFFLUENT. (Ci137 = 0.55)

B Trifi, N Bellakhal, S Cavadias... - Environmental ..., 2012 - search.ebscohost.com

138. Phenol decomposition in water cathode of DC atmospheric pressure discharge in air (Ci138 = 0.55)

ES Bobkova, DS Krasnov, AV Sungurova... - Korean Journal of ..., 2016 - Springer

139. Decontamination of Bacteria by Gas-Liquid Gliding Arc Discharge: Application to (Ci139 = 0.55)

C Du, J Tang, J Mo, D Ma, J Wang... - IEEE Transactions on ..., 2014 - ieeexplore.ieee.org

140. Synthesis, characterization and adsorption of cationic dyes by CS/P (AMPS-co-AM) hydrogel initiated by glow-discharge-electrolysis plasma (Ci140 = 0.55)

J Yu, Y Li, Q Lu, J Zheng, S Yang, F Jin, Q Wang... - Iranian Polymer ..., 2016 - Springer

141. Electrical discharge in water treatment technology for micropollutant decomposition (Ci141 = 0.55)

P Vanraes, A Nikiforov, C Leys - Plasma science and technology: ..., 2016 - biblio.ugent.be

142. Plasma-chemical degradation of Phtalocyanine complexes and slaughterhouse effluents (Ci141 = 0.33)

F Gnokam-Zumgang,... - Optimization of Electrical ..., 2012 - ieeexplore.ieee.org

143. Plasma Assisted Synthesis of TiO₂ Nanorods by Gliding Arc Discharge Processing at atmospheric pressure (Ci143 = 0.55)

E. Acayanka, A. Tiya Djowe, S. Laminsi, CC Tchoumkwé, S. Nzali, A. Poupi Mbouopda, PT Ndifon

144. Plasma reactor classification and optimization (Ci144 = 0.33)

A Einstein - Promotoren: Prof. dr. ir. Christophe Leys Dr. ir. Anton ... - biblio.ugent.be

145. Current-voltage characteristics of ionic liquid-air glow discharges (Ci145 = 0.55)

TA Kareem, AA Kaliani - Journal of Plasma Physics, 2013 - Cambridge Univ Press

146. Gas-Liquid Cold Plasma for Synthesizing Copper Hydroxide Nitrate Nanosheets with High Adsorption Capacity (Ci146 = 0.55)

L Di, D Duan, Z Zhan, X Zhang - Advanced Materials Interfaces, 2016 - Wiley Online Library

147. Special Electromagnetic Agents: From Cold Plasma to Pulsed Electromagnetic Radiation (Ci147 = 0.55)

P Lukes, H Akiyama, C Jiang, A Doria, GP Gallerano... - Bioelectrics, 2017 - Springer

148. Synthesis, Characterization and Photocatalytic Application of TiO₂/SnO₂ Nanocomposite Obtained Under Non-thermal Plasma Condition at Atmospheric Pressure (Ci148 = 0.55)

E Acayanka, GY Kamgang, S Nzali, S Laminsi... - Plasma Chemistry and ..., 2016 - Springer

149. Synthesis, characterization, and property testing of PGS/P (AMPS-co-AM) superabsorbent hydrogel initiated by glow-discharge electrolysis plasma (Ci149 = 0.55)

J Yu, H Zhang, Y Li, Q Lu, Q Wang, W Yang - Colloid and Polymer Science, 2016 - Springer

150. 滑动弧放电等离子体重整甲烷关键技术分析(Ci150 = 0.55)

张浩，朱凤森，李晓东，杜长明，薄拯，岑可法 - 高电压技术, 2015

151. Degradation of Reactive Blue 19 using advanced oxidation methods: gliding-arc plasma discharge (Ci151 = 0.55)

B AlHamad, N Al-Bastaki - Desalination and Water Treatment, 2016 - Taylor & Francis

152. Non-thermal plasma degradation of spent solvents and oils using a gliding arc discharge reactor (Ci152 = 0.33)

M Prantsidou, JC Whitehead - ispc-conference.org

153. Effect of the voltage waveforms and power on hydrogen and hydrogen peroxide formation in water-spray gliding arc reactor (Ci153 = 0.55)

R Burlica, WC Finney, BR Locke - Industry Applications Society ..., 2011 - ieeexplore.ieee.org

154. In-Situ Non-intrusive Diagnostics of Toluene Removal by a Gliding Arc Discharge Using Planar Laser-Induced Fluorescence (Ci154 = 0.55)

J Gao, J Zhu, A Ehn, M Aldén, Z Li - Plasma Chemistry and Plasma Processing - Springer

155. Bactericidal effects in water sprayed through transient spark in air and related formation of ROS and RNS (Ci155 = 0.55)

Z Machala, P Lukes, B Tarabova, E Spetlikova... - 158.195.31.66

156. Selective adsorption and reusability behavior for Pb²⁺ and Cd²⁺ on chitosan/poly(ethylene glycol)/poly(acrylic acid) adsorbent prepared by glow-discharge ... (Ci156 = 0.55)

J Yu, J Zheng, Q Lu, S Yang, X Zhang, X Wang... - Colloid and Polymer ..., 2016 - Springer

157. Treatment of methyl orange by nitrogen non-thermal plasma in a corona reactor: The role of reactive nitrogen species (Ci157 = 0.55)

BM Cadorin, VD Tralli, E Ceriani... - Journal of hazardous ..., 2015 - Elsevier

158. Acid-generating effect of plasma species and pulsed ultraviolet plasma radiation (Ci158 = 0.55)

IM Piskarev - High Energy Chemistry, 2016 - Springer

159. Plasma-assisted electrolytic synthesis of In(OH)₃ nanocubes for thermal transformation into In₂O₃ nanocubes with a controllable Sn content (Ci159 = 0.55)

TH Kim, NSA Eom, SO Kang, YH Choa - RSC Advances, 2016 - pubs.rsc.org

160. Characterizations of damages of DNA caused by plasma treatment and reactive species formed thereby (Ci160 = 0.55)

YW Kwon, JI Jin - Polymers for Advanced Technologies, 2015 - Wiley Online Library

161. Atmospheric Pressure Plasma Jet for Non-Thermal Resistant Materials (Ci161 = 0.33)

J Pawłat, R Samoń, T Gżewski, H Stryczewska - Orléans-France - Citeseer

162. Gliding arc discharge-assisted biodegradation of crystal violet in solution with Aeromonas hydrophila strain (Ci162 = 0.55)

A Njiki, G Kamgang-Youbi, S Laminsi... - International Journal of ..., 2016 - Springer

163. Plasma Technology: A New Remediation for Water Purification with or without Nanoparticles (Ci163 = 0.55)

P Attri, B Arora, R Bhatia, P Venkatesu... - ... of Nanotechnology in ..., 2014 - Wiley Online Library

164. Synthesis and Adsorption Properties for Cationic Dyes of Acrylic Acid/Vermiculite Hydrogel Initiated by Glow-Discharge-Electrolysis Plasma (Ci164 = 0.55)

Q Lu, J Zheng, J Yu, S Yang, D Ma... - Advances in Polymer ..., 2016 - Wiley Online Library

165. Degradation of spent oils in an atmospheric pressure gliding arc discharge reactor (Ci165 = 0.55)

M Prantsidou, JC Whitehead - mpserver.pst.qub.ac.uk

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Semnatura:

Conf.dr.ing. Bogdan HNATIUC

A handwritten signature in black ink, appearing to read "Bogdan Hnatiuc".