

# Ghasiram Dey

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74  
papers

977  
citations

15  
h-index

28  
g-index

80  
ext. papers

1,058  
ext. citations

3  
avg, IF

4.52  
L-index

#	Paper	IF	Citations
74	Parameters affecting the H <sub>2</sub> production and frequency gaps in Ar moisture dielectric barrier discharge. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 013306	2.5	0
73	Synthesis of bi-functional chelating sorbent for recovery of uranium from aqueous solution: sorption, kinetics and reusability studies. <i>Journal of Polymer Research</i> , <b>2021</b> , 28, 1	2.7	0
72	Easing of frequency gaps in carbon monoxide formation with argon diluents in carbon dioxide dielectric barrier discharge. <i>Chemical Engineering Journal Advances</i> , <b>2021</b> , 6, 100099	3.6	1
71	. <i>IEEE Transactions on Plasma Science</i> , <b>2020</b> , 48, 1016-1021	1.3	2
70	Efficient charge transport in surface engineered TiO <sub>2</sub> nanoparticulate photoanodes leading to improved performance in quantum dot sensitized solar cells. <i>Solar Energy</i> , <b>2019</b> , 181, 195-202	6.8	16
69	Benzene transformation in two dielectric barrier discharge reactors having special arrangement. <i>Plasma Processes and Polymers</i> , <b>2019</b> , 16, 1900065	3.4	1
68	Effect of phenyl moiety on the formation of radicals and radical cations of thioamides in n-butyl chloride: a pulse radiolysis study. <i>Journal of Chemical Sciences</i> , <b>2019</b> , 131, 1	1.8	12
67	Application of plasma for efficient H <sub>2</sub> production: A realism of copper electrode in single dielectric barrier discharge reactor. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 103508	2.1	10
66	. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 3070-3075	1.3	2
65	Yields of Hydrogen and Hydrogen Peroxide from Argon/Water Vapor in Dielectric Barrier Discharge. <i>Plasma Chemistry and Plasma Processing</i> , <b>2016</b> , 36, 523-534	3.6	8
64	Evaluation of optimum conditions for hydrogen generation in argon-water vapor dielectric barrier discharge. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 22769-22774	6.7	8
63	Radicals and radical cations of thioacetamide and thiobenzamide in aqueous sulfuric acid media. <i>Research on Chemical Intermediates</i> , <b>2015</b> , 41, 831-843	2.8	2
62	Reduced Au <sup>3+</sup> species in methanol in presence of iodide ions: A radiation chemical study. <i>Radiation Physics and Chemistry</i> , <b>2014</b> , 102, 44-48	2.5	1
61	Transformation of Carbon Dioxide to Useable Products through Free Radical-Induced Reactions <b>2014</b> , 25-50		5
60	Dielectric Barrier Discharge Assisted Transformation of Cyclohexane to $\text{C}_1$ and $\text{C}_2$ Hydrocarbons. <i>IEEE Transactions on Plasma Science</i> , <b>2013</b> , 41, 140-146	1.3	1
59	A comparative study of radical cations of thiourea, thiosemicarbazide, and diethylthiourea in aqueous sulphuric acid media employing pulse radiolysis technique. <i>Journal of Physical Organic Chemistry</i> , <b>2013</b> , 26, 927-932	2.1	3
58	Methane from benzene in argon dielectric barrier discharge. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 248-249, 469-77	12.8	8

57	Septum bleed during GC-MS analysis: utility of septa of various makes. <i>Journal of Chromatographic Science</i> , <b>2013</b> , 51, 117-21	1.4	4
56	Ozone Generation from Argon-Oxygen Mixtures in Presence of Different Packing Materials within Dielectric Barrier Discharge Gap. <i>Ozone: Science and Engineering</i> , <b>2013</b> , 35, 134-145	2.4	13
55	Mechanism of trivalent gold reduction and reactivity of transient divalent and monovalent gold ions studied by gamma and pulse radiolysis. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 383-91	2.8	59
54	Gold and gold-copper nanoparticles in 2-propanol: A radiation chemical study. <i>Radiation Physics and Chemistry</i> , <b>2011</b> , 80, 1216-1221	2.5	6
53	Nitrogen compounds formation in aqueous solutions under high ionizing radiation: An overview. <i>Radiation Physics and Chemistry</i> , <b>2011</b> , 80, 394-402	2.5	8
52	Photo-oxidation of ethylene in gas phase and methanol and formic acid in liquid phase on synthesized TiO <sub>2</sub> and Au/TiO <sub>2</sub> catalysts. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 123, 801-805	4.4	14
51	Variable products in dielectric-barrier discharge assisted benzene oxidation. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 178, 693-8	12.8	20
50	Photolysis studies on HCOOH and HCOOH in presence of TiO <sub>2</sub> photocatalyst as suspension in aqueous medium. <i>Journal of Natural Gas Chemistry</i> , <b>2009</b> , 18, 50-54		14
49	Significant roles of oxygen and unbound OH radical in phenol formation during photo-catalytic degradation of benzene on TiO <sub>2</sub> suspension in aqueous system. <i>Research on Chemical Intermediates</i> , <b>2009</b> , 35, 573-587	2.8	6
48	Reactions of reducing radicals with 2- and 3-nitroanilines in aqueous solutions: a pulse radiolysis study. <i>Research on Chemical Intermediates</i> , <b>2008</b> , 34, 53-65	2.8	
47	Chemical Reduction of CO <sub>2</sub> to Different Products during Photo Catalytic Reaction on TiO <sub>2</sub> under Diverse Conditions: an Overview. <i>Journal of Natural Gas Chemistry</i> , <b>2007</b> , 16, 217-226		110
46	Formation of different products during photo-catalytic reaction on TiO <sub>2</sub> suspension in water with and without 2-propanol under diverse ambient conditions. <i>Research on Chemical Intermediates</i> , <b>2007</b> , 33, 631-644	2.8	21
45	Nitrite formation in aerated aqueous azide solutions: A radiation chemical study. <i>Research on Chemical Intermediates</i> , <b>2007</b> , 33, 599-611	2.8	2
44	Dielectric Barrier Discharge Initiated Gas-Phase Decomposition of CO <sub>2</sub> to CO and C <sub>6</sub> -9 Alkanes to C <sub>1</sub> -3 Hydrocarbons on Glass, Molecular Sieve 10X and TiO <sub>2</sub> /ZnO Surfaces. <i>Plasma Chemistry and Plasma Processing</i> , <b>2007</b> , 27, 669-678	3.6	14
43	Wet Chemical Colorimetric Estimation of CO: An Update on the Reduced Silver Sol Spectral and Kinetic Transformations to Silver nanoparticle. <i>Plasmonics</i> , <b>2006</b> , 1, 95-102	2.4	4
42	Methane generated during photocatalytic redox reaction of alcohols on TiO <sub>2</sub> suspension in aqueous solutions. <i>Research on Chemical Intermediates</i> , <b>2006</b> , 32, 725-736	2.8	18
41	Radiolytic reduction of Fe(II) in 2-propanol. <i>Chemical Physics Letters</i> , <b>2006</b> , 431, 83-87	2.5	12
40	Gas-phase and On-surface Chemical Reduction of CO <sub>2</sub> to HCHO and CO under Dielectric Barrier Discharge. <i>Plasma Chemistry and Plasma Processing</i> , <b>2006</b> , 26, 495-505	3.6	15

39	Silver clusters in 2-propanol: a radiation chemical study. <i>Radiation Physics and Chemistry</i> , <b>2005</b> , 72, 565-573	2.5	19
38	Radiation-induced redox reactions of 2-, 3- and 4-amino-phenols in aqueous solutions. <i>Radiation Physics and Chemistry</i> , <b>2005</b> , 74, 12-20	2.5	7
37	Reduction of the copper ion to its metal and clusters in alcoholic media: A radiation chemical study. <i>Radiation Physics and Chemistry</i> , <b>2005</b> , 74, 172-184	2.5	37
36	Pulse-radiolysis studies on 4-pyridinemethanol and 4-pyridinecarboxaldehyde in aqueous solutions: dimer radical anion formation in the case of 4-pyridinecarboxaldehyde. <i>Research on Chemical Intermediates</i> , <b>2004</b> , 30, 594-603	2.8	1
35	OH radical reactions with ethanolamines: formation of reducing as well as oxidizing radicals. <i>Research on Chemical Intermediates</i> , <b>2004</b> , 30, 837-845	2.8	12
34	Photo-catalytic reduction of carbon dioxide to methane using TiO <sub>2</sub> as suspension in water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2004</b> , 163, 503-508	4.7	119
33	Pulse radiolysis of thionicotinamide in aqueous solutions: formation of resonance stabilized species on one electron oxidation. <i>Research on Chemical Intermediates</i> , <b>2003</b> , 29, 147-156	2.8	3
32	Redox behavior of transient species produced during pulse radiolysis of morpholine in aqueous solutions. <i>Radiation Physics and Chemistry</i> , <b>2003</b> , 67, 115-120	2.5	2
31	Nature of the transient species formed by the reactions of reducing radicals with 2- and 3-aminopyridines: A pulse radiolysis study. <i>Radiation Physics and Chemistry</i> , <b>2002</b> , 64, 123-130	2.5	9
30	Reactions of oxidizing radicals with 2- and 3-aminopyridines: a pulse radiolysis study. <i>Radiation Physics and Chemistry</i> , <b>2002</b> , 64, 395-401	2.5	5
29	Nature of transient species formed during pulse radiolysis of 4-mercaptopyridine in aqueous solutions: Formation of a dimer radical species by one-electron reduction reaction. <i>Research on Chemical Intermediates</i> , <b>2002</b> , 28, 29-39	2.8	5
28	Transient and Stable Silver Clusters Induced by Radiolysis in Methanol. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 10184-10194	2.8	59
27	Pulse radiolysis studies on 8-hydroxyquinoline 5-sulphonic acid in aqueous solutions. <i>Radiation Physics and Chemistry</i> , <b>2001</b> , 60, 61-69	2.5	2
26	Kinetic and spectral properties of intermediates formed during pulse radiolysis of 2,6-pyridinedicarbonyl dichloride in aqueous solutions. <i>Radiation Physics and Chemistry</i> , <b>2001</b> , 60, 173-175	2.5	5
25	Pulse radiolysis study on one-electron oxidation of 1-naphthylamine-4-sulphonic acid in aqueous solutions. <i>Research on Chemical Intermediates</i> , <b>2001</b> , 27, 927-935	2.8	1
24	Rate constants for the reaction of OH radicals with some amino polycarboxylic acids. <i>International Journal of Chemical Kinetics</i> , <b>2000</b> , 32, 99-104	1.4	10
23	Pulse radiolysis study of diphenylcarbazine in aqueous solutions. <i>Radiation Physics and Chemistry</i> , <b>2000</b> , 58, 367-371	2.5	3
22	Pulse radiolysis study of dithio-oxamide in aqueous solutions. <i>Research on Chemical Intermediates</i> , <b>2000</b> , 26, 309-318	2.8	2

21	Thiol radical cations and thiyl radicals as direct products of the free electron transfer from aromatic thiols to n-butyl chloride radical cations. <i>Physical Chemistry Chemical Physics</i> , <b>2000</b> , 2, 1213-1220	3.6	54
20	Reactions of Reducing and Oxidizing Radicals With Thiobenzamide: a Pulse Radiolysis Study. <i>Research on Chemical Intermediates</i> , <b>1999</b> , 25, 403-410	2.8	6
19	Pulse radiolysis study of some substituted thiophenols in aqueous solutions. <i>Radiation Physics and Chemistry</i> , <b>1999</b> , 54, 19-27	2.5	10
18	Encounter geometry determines product characteristics of electron transfer from 4-hydroxythiophenol to n-butyl chloride radical cations. <i>Chemical Physics Letters</i> , <b>1999</b> , 310, 137-144	2.5	12
17	Pulse radiolysis studies on redox reactions of gallic acid: one electron oxidation of gallic acid by gallic acidDH adduct. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 1915-1918	3.6	57
16	Nature of the transient species formed during pulse radiolysis of thioacetamide in aqueous solutions. <i>Research on Chemical Intermediates</i> , <b>1998</b> , 24, 35-45	2.8	7
15	Redox Reactions of 8-Hydroxyquinoline. A Pulse Radiolysis Study. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 684-688	2.8	10
14	Characterization of the Transient Species Formed during the Pulse Radiolysis of 3-Hexyn-1-ol and 5-Hexyn-1-ol in Aqueous Solutions. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 783-786	2.8	2
13	Redox reactions of transient species formed during pulse radiolysis of 2-pyridine carboxaldehyde and 2-pyridine methanol in aqueous solutions. <i>Research on Chemical Intermediates</i> , <b>1997</b> , 23, 801-817	2.8	4
12	Pulse radiolysis study of 2,6-pyridine dicarboxylic acid in aqueous solutions. <i>Radiation Physics and Chemistry</i> , <b>1997</b> , 49, 9-14	2.5	5
11	Pulse radiolysis study of 5-amino tetrazole in aqueous solutions. <i>Radiation Physics and Chemistry</i> , <b>1996</b> , 47, 559-562	2.5	1
10	Redox reactions of V(III) and Cr(III)picolinate complexes in aqueous solutions. <i>Radiation Physics and Chemistry</i> , <b>1996</b> , 48, 737-742	2.5	10
9	Nitrite formation in the radiolysis of aerated aqueous solutions of ammonia. <i>Radiation Physics and Chemistry</i> , <b>1996</b> , 48, 743-747	2.5	11
8	Formation of resonance-stabilized free-radical species in 2,5-dimercaptothiadiazole: a pulse radiolysis study. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 13476-13479		5
7	Kinetic and spectral properties of the intermediates formed in the pulse radiolysis of 2-mercaptobenzimidazole. <i>Research on Chemical Intermediates</i> , <b>1995</b> , 21, 47-58	2.8	15
6	Kinetic and spectral characteristics of transients formed in the pulse radiolysis of phenylthiourea in aqueous solution. <i>Radiation Physics and Chemistry</i> , <b>1994</b> , 43, 365-369	2.5	18
5	Pulse radiolysis of benzidine in aqueous solutions. <i>Radiation Physics and Chemistry</i> , <b>1994</b> , 43, 481-485	2.5	9
4	Triplet states of symmetrically disubstituted biphenyl derivatives. Triplet exciplex formation between benzophenone triplet and benzidine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1994</b> , 78, 221-227	4.7	8

- 3 Pulse radiolysis of some aromatic sulphoxides in aqueous solutions. *Journal of Chemical Sciences*, **1993**, 105, 141-147 1.8
- 2 Studies of the triplet state of biphenyl derivatives by nanosecond pulse radiolysis. *Journal of Photochemistry and Photobiology A: Chemistry*, **1992**, 68, 337-342 4.7 3
- 1 Reactions of e<sup>-</sup><sub>aq</sub> and OH with picolinic acid studied by pulse radiolysis. *Journal of Radioanalytical and Nuclear Chemistry*, **1992**, 163, 391-400 1.5 12