

Anjan Ray

List of Publications by Year in descending order

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41
papers

2,192
citations

430442

18
h-index

315357

38
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41
all docs

41
docs citations

41
times ranked

1289
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and electrochemistry of alkyl ring-substituted polyanilines. <i>The Journal of Physical Chemistry</i> , 1989, 93, 495-499.	2.9	404
2	Polyaniline: Processability from aqueous solutions and effect of water vapor on conductivity. <i>Synthetic Metals</i> , 1987, 21, 21-30.	2.1	292
3	Polyaniline: Doping, structure and derivatives. <i>Synthetic Metals</i> , 1989, 29, 141-150.	2.1	283
4	Electron localization and charge transport in poly(o-toluidine): A model polyaniline derivative. <i>Physical Review B</i> , 1991, 43, 4373-4384.	1.1	245
5	Electron localization in polyaniline derivatives. <i>Physical Review B</i> , 1990, 42, 5411-5414.	1.1	140
6	Polyaniline: protonation/deprotonation of amine and imine sites. <i>Synthetic Metals</i> , 1989, 29, 151-156.	2.1	120
7	Biological machinery for polycyclic aromatic hydrocarbons degradation: A review. <i>Bioresource Technology</i> , 2022, 343, 126121.	4.8	84
8	Application of laccase immobilized rice straw biochar for anthracene degradation. <i>Environmental Pollution</i> , 2021, 268, 115827.	3.7	63
9	X-ray structure of polyanilines. <i>Synthetic Metals</i> , 1991, 41, 723-726.	2.1	61
10	¹⁵ N NMR of polyaniline. <i>Synthetic Metals</i> , 1989, 29, 243-249.	2.1	47
11	X-ray structure of the polyaniline derivative poly(o-toluidine): the structural origin of charge localization. <i>Macromolecules</i> , 1991, 24, 5863-5866.	2.2	45
12	Biocarbon Supported Nanoscale Ruthenium Oxide-Based Catalyst for Clean Hydrogenation of Arenes and Heteroarenes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15740-15754.	3.2	44
13	Simple RuCl ₃ -catalyzed N-Methylation of Amines and Transfer Hydrogenation of Nitroarenes using Methanol. <i>ChemCatChem</i> , 2021, 13, 1722-1729.	1.8	41
14	Carbon-Supported Cobalt Nanoparticles as Catalysts for the Selective Hydrogenation of Nitroarenes to Arylamines and Pharmaceuticals. <i>ACS Applied Nano Materials</i> , 2020, 3, 11070-11079.	2.4	38
15	Effect of utilization of crude glycerol as substrate on fatty acid composition of an oleaginous yeast <i>Rhodotorula mucilagenosa</i> IIPL32: Assessment of nutritional indices. <i>Bioresource Technology</i> , 2020, 309, 123330.	4.8	33
16	Vapor deposited polyaniline. <i>Synthetic Metals</i> , 1989, 29, 451-456.	2.1	30
17	Removal of Petroleum Contaminants Through Bioremediation with Integrated Concepts of Resource Recovery: A Review. <i>Indian Journal of Microbiology</i> , 2021, 61, 250-261.	1.5	21
18	Chemically functionalized 2D/2D hexagonal boron Nitride/Molybdenum disulfide heterostructure for enhancement of lubrication properties. <i>Applied Surface Science</i> , 2022, 579, 152157.	3.1	20

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19	High surface area Eucalyptus wood biochar for the removal of phenol from petroleum refinery wastewater. <i>Environmental Challenges</i> , 2021, 5, 100353.	2.0	19
20	Enhanced lipid production in <i>Scenedesmus obliquus</i> via nitrogen starvation in a two-stage cultivation process and evaluation for biodiesel production. <i>Fuel</i> , 2022, 316, 123418.	3.4	18
21	Electron localization in polyaniline and its derivatives. <i>Synthetic Metals</i> , 1991, 41, 749-752.	2.1	14
22	Alkali-Assisted Hydrothermal Exfoliation and Surfactant-Driven Functionalization of h-BN Nanosheets for Lubrication Enhancement. <i>ACS Applied Nano Materials</i> , 2021, 4, 9143-9154.	2.4	14
23	Biorenewable carbon-supported Ru catalyst for N-alkylation of amines with alcohols and selective hydrogenation of nitroarenes. <i>New Journal of Chemistry</i> , 2021, 45, 14687-14694.	1.4	13
24	Determination of biodiesel and used cooking oil in automotive diesel/green diesel fuels through high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2020, 1629, 461512.	1.8	12
25	Lignin Residue-Derived Carbon-Supported Nanoscale Iron Catalyst for the Selective Hydrogenation of Nitroarenes and Aromatic Aldehydes. <i>ACS Omega</i> , 2022, 7, 19804-19815.	1.6	11
26	Surface Functionalization of WS ₂ Nanosheets with Alkyl Chains for Enhancement of Dispersion Stability and Tribological Properties. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 1334-1346.	4.0	10
27	Production of Green Liquid Hydrocarbon Fuels. , 2011, , 587-608.		9
28	Pd/C-catalyzed transfer hydrogenation of aromatic nitro compounds using methanol as a hydrogen source. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100014.	1.3	9
29	Heteronuclear NMR studies of cobalamins. 11. Nitrogen-15 NMR studies of the axial nucleotide and amide side chains of cyanocobalamin and dicyanocobamides. <i>Inorganic Chemistry</i> , 1990, 29, 4841-4844.	1.9	8
30	Pyrene remediation by <i>Trametes maxima</i> : an insight into secretome response and degradation pathway. <i>Environmental Science and Pollution Research</i> , 2022, 29, 44135-44147.	2.7	6
31	Hitherto Unexplored Three-Membered Heterocyclic Rings Favorably Alter Tribological Properties of Fatty Acid Linear Esters. <i>Tribology Transactions</i> , 0, , 1-26.	1.1	5
32	Characterization of the de-oiled yeast biomass for plausible value mapping in a biorefinery perspective. <i>Bioresource Technology</i> , 2021, 337, 125422.	4.8	5
33	CO ₂ as oxidant: an unusual light-assisted catalyst free oxidation of aldehydes to acids under mild conditions. <i>Chemical Communications</i> , 2022, 58, 2208-2211.	2.2	5
34	Optical Studies of Polyanilines: Effects of Alkyl Ring-Substitution and Solvent Environment. <i>Materials Research Society Symposia Proceedings</i> , 1989, 173, 353.	0.1	4
35	Two-dimensional solid state NMR studies of poly(aniline). <i>Synthetic Metals</i> , 1993, 55, 702-707.	2.1	4
36	Managing supply chain aspects of the COVID-19 pandemic in India. <i>Indian Chemical Engineer</i> , 2020, 62, 396-401.	0.9	4

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37	An innovative light assisted production of acetic acid from CO ₂ and methanol: a first photocatalytic approach using a reusable cobalt(II) molecular hybrid at atmospheric pressure. <i>Green Chemistry</i> , 2021, 23, 9048-9060.	4.6	4
38	The Effect of Impellerâ€“Sparger Geometry on the Gas Holdup in an Oxygenâ€“Water System Using an Agitated and Sparged Tank Contactor. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10445-10453.	1.8	3
39	Estimation of Gas Holdup Using the Gassed to Ungassed Power Ratio of an Oxygenâ€“Water System in a Stirred and Sparged Tank Contactor. <i>ACS Omega</i> , 2020, 5, 28929-28941.	1.6	2
40	Carbon Capture and Sequestration: Implications and Opportunities for India. <i>Green Energy and Technology</i> , 2021, , 19-25.	0.4	1
41	Chiral Conducting Poly (3-Alkylthiophenes): Spectroscopic and Electrochemical Properties. , 1991, , 407-411.		1