

Anjan Ray

List of Publications by Year in descending order

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41
papers

2,192
citations

430874

18
h-index

315739

38
g-index

41
all docs

41
docs citations

41
times ranked

1289
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and electrochemistry of alkyl ring-substituted polyanilines. The Journal of Physical Chemistry, 1989, 93, 495-499.	2.9	404
2	Polyaniline: Processability from aqueous solutions and effect of water vapor on conductivity. Synthetic Metals, 1987, 21, 21-30.	3.9	292
3	Polyaniline: Doping, structure and derivatives. Synthetic Metals, 1989, 29, 141-150.	3.9	283
4	Electron localization and charge transport in poly(o-toluidine): A model polyaniline derivative. Physical Review B, 1991, 43, 4373-4384.	3.2	245
5	Electron localization in polyaniline derivatives. Physical Review B, 1990, 42, 5411-5414.	3.2	140
6	Polyaniline: protonation/deprotonation of amine and imine sites. Synthetic Metals, 1989, 29, 151-156.	3.9	120
7	Biological machinery for polycyclic aromatic hydrocarbons degradation: A review. Bioresource Technology, 2022, 343, 126121.	9.6	84
8	Application of laccase immobilized rice straw biochar for anthracene degradation. Environmental Pollution, 2021, 268, 115827.	7.5	63
9	X-ray structure of polyanilines. Synthetic Metals, 1991, 41, 723-726.	3.9	61
10	¹⁵ N NMR of polyaniline. Synthetic Metals, 1989, 29, 243-249.	3.9	47
11	X-ray structure of the polyaniline derivative poly(o-toluidine): the structural origin of charge localization. Macromolecules, 1991, 24, 5863-5866.	4.8	45
12	Biocarbon Supported Nanoscale Ruthenium Oxide-Based Catalyst for Clean Hydrogenation of Arenes and Heteroarenes. ACS Sustainable Chemistry and Engineering, 2020, 8, 15740-15754.	6.7	44
13	Simple RuCl ₃ -catalyzed N-Methylation of Amines and Transfer Hydrogenation of Nitroarenes using Methanol. ChemCatChem, 2021, 13, 1722-1729.	3.7	41
14	Carbon-Supported Cobalt Nanoparticles as Catalysts for the Selective Hydrogenation of Nitroarenes to Arylamines and Pharmaceuticals. ACS Applied Nano Materials, 2020, 3, 11070-11079.	5.0	38
15	Effect of utilization of crude glycerol as substrate on fatty acid composition of an oleaginous yeast Rhodotorula mucilagenosa IIPL32: Assessment of nutritional indices. Bioresource Technology, 2020, 309, 123330.	9.6	33
16	Vapor deposited polyaniline. Synthetic Metals, 1989, 29, 451-456.	3.9	30
17	Removal of Petroleum Contaminants Through Bioremediation with Integrated Concepts of Resource Recovery: A Review. Indian Journal of Microbiology, 2021, 61, 250-261.	2.7	21
18	Chemically functionalized 2D/2D hexagonal boron Nitride/Molybdenum disulfide heterostructure for enhancement of lubrication properties. Applied Surface Science, 2022, 579, 152157.	6.1	20

#	ARTICLE	IF	CITATIONS
19	High surface area Eucalyptus wood biochar for the removal of phenol from petroleum refinery wastewater. <i>Environmental Challenges</i> , 2021, 5, 100353.	4.2	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.	6.4	18
21	Electron localization in polyaniline and its derivatives. <i>Synthetic Metals</i> , 1991, 41, 749-752.	3.9	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.	5.0	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.	2.8	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.	3.7	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.	3.5	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.	8.0	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.	2.8	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.	4.0	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.	5.3	6
31	Hitherto Unexplored Three-Membered Heterocyclic Rings Favorably Alter Tribological Properties of Fatty Acid Linear Esters. <i>Tribology Transactions</i> , 0, , 1-26.	2.0	5
32	Characterization of the de-oiled yeast biomass for plausible value mapping in a biorefinery perspective. <i>Bioresource Technology</i> , 2021, 337, 125422.	9.6	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.	4.1	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.	3.9	4
36	Managing supply chain aspects of the COVID-19 pandemic in India. <i>Indian Chemical Engineer</i> , 2020, 62, 396-401.	1.5	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(<i>ii</i>) molecular hybrid at atmospheric pressure. Green Chemistry, 2021, 23, 9048-9060.	9.0	4
38	The Effect of Impellerâ€“Sparger Geometry on the Gas Holdup in an Oxygenâ€“Water System Using an Agitated and Sparged Tank Contactor. Industrial & Engineering Chemistry Research, 2021, 60, 10445-10453.	3.7	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. ACS Omega, 2020, 5, 28929-28941.	3.5	2
40	Carbon Capture and Sequestration: Implications and Opportunities for India. Green Energy and Technology, 2021, , 19-25.	0.6	1
41	Chiral Conducting Poly (3-Alkylthiophenes): Spectroscopic and Electrochemical Properties. , 1991, , 407-411.		1