

# Ranjit Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

920  
citations

687363

13  
h-index

526287

27  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1281  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Catalytic Activity of Cryptomelane-Type Manganese Dioxide Nanomaterials Produced by a Novel Solvent-Free Method. <i>Chemistry of Materials</i> , 2005, 17, 5382-5389.	6.7	229
2	Cyclohexane oxidation catalyzed by manganese oxide octahedral molecular sieves—Effect of acidity of the catalyst. <i>Journal of Catalysis</i> , 2009, 262, 304-313.	6.2	143
3	Tandem catalysis: Direct catalytic synthesis of imines from alcohols using manganese octahedral molecular sieves. <i>Journal of Catalysis</i> , 2008, 253, 269-277.	6.2	135
4	Diet-Related Modification of Cuticular Hydrocarbon Profiles of the Argentine Ant, <i>Linepithema humile</i> , Diminishes Intercolony Aggression. <i>Journal of Chemical Ecology</i> , 2005, 31, 829-843.	1.8	79
5	Ammonia Gas Sensing Using Thin Film of MnO <sub>2</sub> Nanofibers. <i>IEEE Sensors Journal</i> , 2016, 16, 4691-4695.	4.7	34
6	Ultrasound assisted synthesis of magnetic Fe <sub>3</sub> O <sub>4</sub> /MnO <sub>2</sub> nanocomposite for photodegradation of organic dye. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 609, 125720.	4.7	33
7	Recent developments of nanomaterial applications in additive manufacturing: a brief review. <i>Current Opinion in Chemical Engineering</i> , 2020, 28, 75-82.	7.8	31
8	Manganese octahedral molecular sieve catalysts for selective styrene oxide ring opening. <i>Catalysis Today</i> , 2009, 140, 162-168.	4.4	30
9	Manganese oxide octahedral molecular sieve catalysts for synthesis of 2-aminodiphenylamine. <i>Journal of Catalysis</i> , 2005, 236, 387-391.	6.2	24
10	MnO <sub>2</sub> Based Bisphenol-A Electrochemical Sensor Using Micro-Fluidic Platform. <i>IEEE Sensors Journal</i> , 2018, 18, 2206-2210.	4.7	22
11	Rapid Electrochemical Monitoring of Bacterial Respiration for Gram-Positive and Gram-Negative Microbes: Potential Application in Antimicrobial Susceptibility Testing. <i>Analytical Chemistry</i> , 2020, 92, 4266-4274.	6.5	20
12	Visible light induced photodegradation of chlorinated organic pollutants using highly efficient magnetic Fe <sub>3</sub> O <sub>4</sub> /TiO <sub>2</sub> nanocomposite. <i>Optik</i> , 2021, 243, 167309.	2.9	19
13	Self Assembly of Super-hydrophobic Nanotextured Methyl Functionalized Silica on Copper and Aluminium Surfaces for Moist Air Condensation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 605, 125379.	4.7	17
14	Tailoring the hydrophobicity of copper surface with ion beam irradiation. <i>Radiation Effects and Defects in Solids</i> , 2019, 174, 307-319.	1.2	12
15	An Enzymatic Multiplexed Impedimetric Sensor Based on Zn-MnO <sub>2</sub> /GQD Nano-Composite for the Detection of Diabetes and Diabetic Foot Ulcer Using Micro-Fluidic Platform. <i>Chemosensors</i> , 2021, 9, 339.	3.6	12
16	Electroanalytical Sensor for Diabetic Foot Ulcer Monitoring with Integrated Electronics for Connected Health Application. <i>Electroanalysis</i> , 2020, 32, 2082-2089.	2.9	11
17	Rapid removal of lead(II) ions from water using iron oxide—tea waste nanocomposite—a kinetic study. <i>IET Nanobiotechnology</i> , 2020, 14, 275-280.	3.8	11
18	Synthesis of hematite/alginate beads nanocomposite and its application in organic dye removal. <i>Materials Today: Proceedings</i> , 2020, 28, 70-73.	1.8	10

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19	Design and development of a portable resistive sensor based on $\text{MnO}_2/\text{GQD}$ nanocomposites for trace quantification of Pb(II) in water. IET Nanobiotechnology, 2021, 15, 505-511.	3.8	9
20	Super-Hydrophobic Nanostructured Silica Coating on Aluminum Substrate for Moist Air Condensation. Journal of Materials Engineering and Performance, 2022, 31, 1266-1276.	2.5	7
21	Design and development of a novel flexible molecularly imprinted electroanalytical sensor for the monitoring of diabetic foot ulcers. Surfaces and Interfaces, 2021, 26, 101310.	3.0	7
22	Recent Developments in Fabrication of Super-Hydrophobic Surfaces: A Review. Lecture Notes in Mechanical Engineering, 2019, , 127-140.	0.4	6
23	A label-free impedimetric sensor based on $\text{MnO}_2$ /tyrosinase hybrid for monitoring of diabetic foot ulcers. , 2020, , .		4
24	Catalytic remediation of chlorinated organic compounds (COCs) in wastewater. , 2022, , 133-151.		3
25	Emergency Management using Social Networks. , 2019, , .		2
26	Label-Free Electrochemical Detection of Dibenzofuran Using $\text{MnO}_2$ , Nanofibres. IEEE Sensors Journal, 2020, 20, 12537-12542.	4.7	2
27	Encoding scheme for data storage and retrieval on DNA computers. IET Nanobiotechnology, 2020, 14, 635-641.	3.8	2
28	Synthesis and Catalytic Activity of Cryptomelane-Type Manganese Dioxide Nanomaterials Produced by a Novel Solvent-Free Method.. ChemInform, 2006, 37, no.	0.0	1
29	Enhanced Switching in an Argon Annealed RRAM by Ion Irradiation. ECS Journal of Solid State Science and Technology, 0, , .	1.8	1
30	ZnO based RRAM performance enhancement by 100 MeV $\text{Ag}^{9+}$ irradiation. Applied Surface Science Advances, 2022, 9, 100260.	6.8	1
31	Synthesis of Horseradish Peroxidase-Gold Nanoparticle Conjugate through Green Route. Asian Journal of Chemistry, 2020, 32, 1243-1247.	0.3	0