

# Rahul Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

994  
citations

361045

20  
h-index

454577

30  
g-index

44  
all docs

44  
docs citations

44  
times ranked

715  
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile synthesis of cobalt oxide and graphene nanosheets nanocomposite for aqueous supercapacitor application. Carbon Trends, 2022, 7, 100144.	1.4	27
2	Present Status and Future Perspective of Antimony Chalcogenide ( $Sb_2X_3$ ) Photovoltaics. ACS Applied Energy Materials, 2022, 5, 6545-6585.	2.5	21
3	Dye-Sensitized Solar Cells. Springer Handbooks, 2022, , 1137-1214.	0.3	1
4	Synthesis and characterization of sucrose derived carbon/MnO <sub>2</sub> nanocomposite. Materials Today: Proceedings, 2021, 35, 76-78.	0.9	3
5	Synthesis and characterization of cobalt oxide (Co <sub>3</sub> O <sub>4</sub> ) nanoparticles. Materials Today: Proceedings, 2021, 41, 269-271.	0.9	18
6	Carbon coated cobalt oxide (CC-CO <sub>3</sub> O <sub>4</sub> ) as electrode material for supercapacitor applications. Materials Advances, 2021, 2, 2918-2923.	2.6	36
7	Photocatalytic degradation of cyanide using polyurethane foam immobilized Fe-TCPP-S-TiO <sub>2</sub> -rGO nano-composite. Journal of Environmental Management, 2021, 297, 113312.	3.8	36
8	A mini-review: Graphene based composites for supercapacitor application. Inorganic Chemistry Communication, 2021, 133, 108929.	1.8	92
9	Development of paper-based flexible supercapacitor: Bismuth ferrite/graphene nanocomposite as an active electrode material. Journal of Alloys and Compounds, 2020, 813, 152145.	2.8	67
10	Sucrose-derived carbon-coated nickel oxide (SDCC-NiO) as an electrode material for supercapacitor applications. Materials Advances, 2020, 1, 609-616.	2.6	32
11	Carbon coated iron oxide (CC-IO) as high performance electrode material for supercapacitor applications. Journal of Energy Storage, 2020, 32, 101737.	3.9	26
12	Study on electrochemical properties of silicon micro particles as electrode for supercapacitor application. Surfaces and Interfaces, 2020, 19, 100524.	1.5	13
13	<i>In situ</i> carbon-supported titanium dioxide (ICS-TiO <sub>2</sub> ) as an electrode material for high performance supercapacitors. Nanoscale Advances, 2020, 2, 2376-2386.	2.2	50
14	In-situ carbon-coated tin oxide (ISCC-SnO <sub>2</sub> ) for micro-supercapacitor applications. Carbon Letters, 2020, 30, 699-707.	3.3	16
15	PREPARATION OF MnO <sub>2</sub> NANOPARTICLES BY A SOLUTION BASED APPROACH FOR ELECTROCHEMICAL CAPACITOR. Surface Review and Letters, 2020, 27, 1950199.	0.5	4
16	Electrochemical Performance and Working Voltage Optimization of Nickel Ferrite/Graphene Composite based Supercapacitor. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 3325-3331.	1.9	27
17	Electrophoretically Deposited Bismuth Iron Oxide Nanoparticles Film for Supercapacitor Application. Russian Journal of Electrochemistry, 2020, 56, 1037-1042.	0.3	3
18	Fabrication of a counter electrode for dye-sensitized solar cells (DSSCs) using a carbon material produced with the organic ligand 2-methyl-8-hydroxyquinolinol (Mq). Nanoscale Advances, 2019, 1, 3192-3199.	2.2	42

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19	Synthesis of Nickel Ferrite Nanoparticles Supported on Graphene Nanosheets as Composite Electrodes for High Performance Supercapacitor. <i>ChemistrySelect</i> , 2019, 4, 9952-9958.	0.7	33
20	Carbon Derived from Sucrose as Anode Material for Lithium-Ion Batteries. <i>Journal of Electronic Materials</i> , 2019, 48, 7389-7395.	1.0	14
21	Silicon-MnO <sub>2</sub> core-shell nanowires as electrodes for micro-supercapacitor application. <i>Ceramics International</i> , 2019, 45, 18914-18923.	2.3	33
22	In-situ carbon coated manganese oxide nanorods (ISCC-MnO <sub>2</sub> NRs) as an electrode material for supercapacitors. <i>Diamond and Related Materials</i> , 2019, 94, 110-117.	1.8	34
23	Power performance of BFO-graphene composite electrodes based supercapacitor. <i>Materials Research Express</i> , 2019, 6, 025054.	0.8	12
24	Synthesis and characterization of carbon based counter electrode for dye sensitized solar cells (DSSCs) using organic precursor 2,2'-Bipyridine (Bpy) as a carbon material. <i>Journal of Alloys and Compounds</i> , 2018, 748, 905-910.	2.8	32
25	Sol-gel synthesized BiFeO <sub>3</sub> -Graphene nanocomposite as efficient electrode for supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 9361-9368.	1.1	49
26	Sucrose derived carbon coated silicon nanowires for supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 1947-1954.	1.1	21
27	Synthesis and characterization of a new photoluminescent aluminium complex bis (8-hydroxyquinoline) (2,2'-bipyridine) aluminium Al(Bpy) <sub>2</sub> . <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0
28	Synthesis and characterization of carbon based counter electrode for dye sensitized solar cells (DSSCs) using sugar free as a carbon material. <i>Solar Energy</i> , 2017, 144, 215-220.	2.9	68
29	High efficiency dye sensitized solar cell made by carbon derived from sucrose. <i>Optical Materials</i> , 2017, 64, 401-405.	1.7	25
30	Fabrication of low specific resistance ceramic carbon composites by colloidal processing using glucose as soluble carbon source. <i>Bulletin of Materials Science</i> , 2017, 40, 1197-1202.	0.8	14
31	In situ-growth of silica nanowires in ceramic carbon composites. <i>Journal of Asian Ceramic Societies</i> , 2017, 5, 304-312.	1.0	8
32	Enhancing steel properties through in situ formation of ultrahard ceramic surface. <i>Scientific Reports</i> , 2016, 6, 38740.	1.6	5
33	Synthesis and characterization of low specific resistance alumina-clay-carbon composites by colloidal processing using sucrose as a soluble carbon source for electrical applications. <i>RSC Advances</i> , 2016, 6, 8705-8713.	1.7	20
34	Fabrication of low specific resistance ceramic carbon composites by slip casting. <i>Journal of Asian Ceramic Societies</i> , 2015, 3, 262-265.	1.0	15
35	Fabrication of a counter electrode using glucose as carbon material for dye sensitized solar cells. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 331-336.	1.9	27
36	Synthesis and electroluminescence properties of tris-[5-chloro-8-hydroxyquinoline] aluminum Al(5-Clq) <sub>3</sub> . <i>Journal of Semiconductors</i> , 2015, 36, 064001.	2.0	4

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37	A simple route to making counter electrode for dye sensitized solar cells (DSSCs) using sucrose as carbon precursor. <i>Journal of Colloid and Interface Science</i> , 2015, 459, 146-150.	5.0	40
38	Synthesis and electroluminescence properties of a new aluminium complex [5-chloro-8-hydroxyquinoline] bis [2,2'-bipyridine] Aluminium Al(Bpy) <sub>2</sub> (5-Clq). <i>Journal of Molecular Structure</i> , 2015, 1100, 592-596.	1.8	6
39	Synthesis and Characterization of Cadmium Complex and Its Application in Organic Light Emitting Diodes (OLEDs). <i>Advanced Science Letters</i> , 2014, 20, 1001-1004.	0.2	12
40	Green-light emitting electroluminescent device based on a new cadmium complex. <i>Europhysics Letters</i> , 2010, 90, 57004.	0.7	3
41	Application of Iron Oxide in Supercapacitor. , 0, , .		2