

# Rahul Kumar

## List of Publications by Year in descending order

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41  
papers

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citations

361045

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454577

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44  
all docs

44  
docs citations

44  
times ranked

715  
citing authors

#	ARTICLE	IF	CITATIONS
1	A mini-review: Graphene based composites for supercapacitor application. Inorganic Chemistry Communication, 2021, 133, 108929.	1.8	92
2	Synthesis and characterization of carbon based counter electrode for dye sensitized solar cells (DSSCs) using sugar free as a carbon material. Solar Energy, 2017, 144, 215-220.	2.9	68
3	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
4	In situ 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
5	Sol-gel synthesized BiFeO <sub>3</sub> -Graphene nanocomposite as efficient electrode for supercapacitor application. Journal of Materials Science: Materials in Electronics, 2018, 29, 9361-9368.	1.1	49
6	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
7	A simple route to making counter electrode for dye sensitized solar cells (DSSCs) using sucrose as carbon precursor. Journal of Colloid and Interface Science, 2015, 459, 146-150.	5.0	40
8	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
9	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
10	In-situ carbon coated manganese oxide nanorods (ISCC-MnO <sub>2</sub> NRs) as an electrode material for supercapacitors. Diamond and Related Materials, 2019, 94, 110-117.	1.8	34
11	Synthesis of Nickel Ferrite Nanoparticles Supported on Graphene Nanosheets as Composite Electrodes for High Performance Supercapacitor. ChemistrySelect, 2019, 4, 9952-9958.	0.7	33
12	Silicon-MnO <sub>2</sub> core-shell nanowires as electrodes for micro-supercapacitor application. Ceramics International, 2019, 45, 18914-18923.	2.3	33
13	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. Journal of Alloys and Compounds, 2018, 748, 905-910.	2.8	32
14	Sucrose-derived carbon-coated nickel oxide (SDCC-NiO) as an electrode material for supercapacitor applications. Materials Advances, 2020, 1, 609-616.	2.6	32
15	Fabrication of a counter electrode using glucose as carbon material for dye sensitized solar cells. Materials Science in Semiconductor Processing, 2015, 40, 331-336.	1.9	27
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	Facile synthesis of cobalt oxide and graphene nanosheets nanocomposite for aqueous supercapacitor application. Carbon Trends, 2022, 7, 100144.	1.4	27
18	Carbon coated iron oxide (CC-IO) as high performance electrode material for supercapacitor applications. Journal of Energy Storage, 2020, 32, 101737.	3.9	26

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19	High efficiency dye sensitized solar cell made by carbon derived from sucrose. <i>Optical Materials</i> , 2017, 64, 401-405.	1.7	25
20	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
21	Present Status and Future Perspective of Antimony Chalcogenide ( $Sb_2X_3$ ) Photovoltaics. <i>ACS Applied Energy Materials</i> , 2022, 5, 6545-6585.	2.5	21
22	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
23	Synthesis and characterization of cobalt oxide ( $Co_3O_4$ ) nanoparticles. <i>Materials Today: Proceedings</i> , 2021, 41, 269-271.	0.9	18
24	In-situ carbon-coated tin oxide (ISCC-SnO <sub>2</sub> ) for micro-supercapacitor applications. <i>Carbon Letters</i> , 2020, 30, 699-707.	3.3	16
25	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
26	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
27	Carbon Derived from Sucrose as Anode Material for Lithium-Ion Batteries. <i>Journal of Electronic Materials</i> , 2019, 48, 7389-7395.	1.0	14
28	Study on electrochemical properties of silicon micro particles as electrode for supercapacitor application. <i>Surfaces and Interfaces</i> , 2020, 19, 100524.	1.5	13
29	Power performance of BFO-graphene composite electrodes based supercapacitor. <i>Materials Research Express</i> , 2019, 6, 025054.	0.8	12
30	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
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	Synthesis and electroluminescence properties of a new aluminium complex [5-choloro-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
33	Enhancing steel properties through in situ formation of ultrahard ceramic surface. <i>Scientific Reports</i> , 2016, 6, 38740.	1.6	5
34	Synthesis and electroluminescence properties of tris-[5-choloro-8-hydroxyquinoline] aluminum Al(5-Clq) <sub>3</sub> . <i>Journal of Semiconductors</i> , 2015, 36, 064001.	2.0	4
35	PREPARATION OF MnO <sub>2</sub> NANOPARTICLES BY A SOLUTION BASED APPROACH FOR ELECTROCHEMICAL CAPACITOR. <i>Surface Review and Letters</i> , 2020, 27, 1950199.	0.5	4
36	Green-light-emitting electroluminescent device based on a new cadmium complex. <i>Europhysics Letters</i> , 2010, 90, 57004.	0.7	3

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37	Synthesis and characterization of sucrose derived carbon/MnO <sub>2</sub> nanocomposite. Materials Today: Proceedings, 2021, 35, 76-78.	0.9	3
38	Electrophoretically Deposited Bismuth Iron Oxide Nanoparticles Film for Supercapacitor Application. Russian Journal of Electrochemistry, 2020, 56, 1037-1042.	0.3	3
39	Application of Iron Oxide in Supercapacitor. , 0, , .		2
40	Dye-Sensitized Solar Cells. Springer Handbooks, 2022, , 1137-1214.	0.3	1
41	Synthesis and characterization of a new photoluminescent aluminium complex bis (8-hydroxyquinoline) (2,2'-bipyridine) aluminium Al(Bpy) <sub>2</sub> q <sub>2</sub> . AIP Conference Proceedings, 2018, , .	0.3	0