

# Rahul R Salunkhe

## List of Publications by Year in descending order

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80  
papers

12,095  
citations

34100

52  
h-index

64791

79  
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82  
all docs

82  
docs citations

82  
times ranked

13469  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Conversion of Core-Shell Metal-Organic Frameworks: A New Method for Selectively Functionalized Nanoporous Hybrid Carbon. <i>Journal of the American Chemical Society</i> , 2015, 137, 1572-1580.	13.7	1,307
2	Metal-Organic Framework-Derived Nanoporous Metal Oxides toward Supercapacitor Applications: Progress and Prospects. <i>ACS Nano</i> , 2017, 11, 5293-5308.	14.6	988
3	Asymmetric Supercapacitors Using 3D Nanoporous Carbon and Cobalt Oxide Electrodes Synthesized from a Single Metal-Organic Framework. <i>ACS Nano</i> , 2015, 9, 6288-6296.	14.6	890
4	Nanoarchitected Design of Porous Materials and Nanocomposites from Metal-Organic Frameworks. <i>Advanced Materials</i> , 2017, 29, 1604898.	21.0	732
5	Nanoarchitectures for Metal-Organic Framework-Derived Nanoporous Carbons toward Supercapacitor Applications. <i>Accounts of Chemical Research</i> , 2016, 49, 2796-2806.	15.6	670
6	Large-scale synthesis of coaxial carbon nanotube/Ni(OH) <sub>2</sub> composites for asymmetric supercapacitor application. <i>Nano Energy</i> , 2015, 11, 211-218.	16.0	439
7	Electric Double-Layer Capacitors Based on Highly Graphitized Nanoporous Carbons Derived from ZIF-67. <i>Chemistry - A European Journal</i> , 2014, 20, 7895-7900.	3.3	423
8	Fabrication of symmetric supercapacitors based on MOF-derived nanoporous carbons. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19848-19854.	10.3	419
9	A high-performance supercapacitor cell based on ZIF-8-derived nanoporous carbon using an organic electrolyte. <i>Chemical Communications</i> , 2016, 52, 4764-4767.	4.1	394
10	Bimetallic Metal-Organic Frameworks for Controlled Catalytic Graphitization of Nanoporous Carbons. <i>Scientific Reports</i> , 2016, 6, 30295.	3.3	314
11	Fabrication of copper oxide multilayer nanosheets for supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2010, 492, 26-30.	5.5	312
12	Nanoarchitected Graphene-Based Supercapacitors for Next-Generation Energy Storage Applications. <i>Chemistry - A European Journal</i> , 2014, 20, 13838-13852.	3.3	274
13	Ultrahigh performance supercapacitors utilizing core-shell nanoarchitectures from a metal-organic framework-derived nanoporous carbon and a conducting polymer. <i>Chemical Science</i> , 2016, 7, 5704-5713.	7.4	236
14	Chemically deposited nanocrystalline NiO thin films for supercapacitor application. <i>Applied Surface Science</i> , 2008, 255, 2603-2607.	6.1	227
15	Zeolitic imidazolate framework (ZIF-8) derived nanoporous carbon: the effect of carbonization temperature on the supercapacitor performance in an aqueous electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29308-29315.	2.8	213
16	A novel chemical synthesis and characterization of Mn <sub>3</sub> O <sub>4</sub> thin films for supercapacitor application. <i>Applied Surface Science</i> , 2010, 256, 4411-4416.	6.1	187
17	Platinum-Free Counter Electrode Comprised of Metal-Organic-Framework (MOF)-Derived Cobalt Sulfide Nanoparticles for Efficient Dye-Sensitized Solar Cells (DSSCs). <i>Scientific Reports</i> , 2014, 4, 6983.	3.3	182
18	Chemical synthesis and electrochemical analysis of nickel cobaltite nanostructures for supercapacitor applications. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6677-6682.	5.5	176

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19	Large-scale Synthesis of Reduced Graphene Oxides with Uniformly Coated Polyaniline for Supercapacitor Applications. <i>ChemSusChem</i> , 2014, 7, 1551-1556.	6.8	170
20	A novel chemical synthesis of Mn <sub>3</sub> O <sub>4</sub> thin film and its stepwise conversion into birnessite MnO <sub>2</sub> during super capacitive studies. <i>Journal of Electroanalytical Chemistry</i> , 2010, 647, 60-65.	3.8	156
21	Chemical synthesis and characterization of Mn <sub>3</sub> O <sub>4</sub> thin films for supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2010, 497, 166-170.	5.5	155
22	Room temperature liquefied petroleum gas (LPG) sensor based on p-polyaniline/n-TiO <sub>2</sub> heterojunction. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 988-992.	7.8	139
23	Aligned nickel-cobalt hydroxide nanorod arrays for electrochemical pseudocapacitor applications. <i>RSC Advances</i> , 2012, 2, 3190.	3.6	130
24	Effect of film thickness on liquefied petroleum gas (LPG) sensing properties of SILAR deposited CdO thin films. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 345-351.	7.8	128
25	Direct Growth of Cobalt Hydroxide Rods on Nickel Foam and Its Application for Energy Storage. <i>Chemistry - A European Journal</i> , 2014, 20, 3084-3088.	3.3	127
26	Conversion of Chemically Prepared Interlocked Cubelike Mn <sub>3</sub> O <sub>4</sub> to Birnessite MnO <sub>2</sub> Using Electrochemical Cycling. <i>Journal of the Electrochemical Society</i> , 2010, 157, A812.	2.9	107
27	Hydrophilic polyaniline nanofibrous architecture using electrosynthesis method for supercapacitor application. <i>Current Applied Physics</i> , 2010, 10, 904-909.	2.4	106
28	Synthesis and Characterization of NiMoO <sub>4</sub> Nanorods for Supercapacitor Application. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3694-3699.	2.0	103
29	A novel chemical synthesis of interlocked cubes of hausmannite Mn <sub>3</sub> O <sub>4</sub> thin films for supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2009, 484, 218-221.	5.5	97
30	High energy density supercapacitors composed of nickel cobalt oxide nanosheets on nanoporous carbon nanoarchitectures. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11834-11839.	10.3	97
31	Nitrogen-doped hollow carbon spheres with large mesoporous shells engineered from diblock copolymer micelles. <i>Chemical Communications</i> , 2016, 52, 505-508.	4.1	87
32	Fuzzy nanofibrous network of polyaniline electrode for supercapacitor application. <i>Synthetic Metals</i> , 2010, 160, 519-522.	3.9	85
33	Binary metal hydroxide nanorods and multi-walled carbon nanotube composites for electrochemical energy storage applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 21630.	6.7	81
34	Flexible-wire shaped all-solid-state supercapacitors based on facile electropolymerization of polythiophene with ultra-high energy density. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7406-7415.	10.3	81
35	General template-free strategy for fabricating mesoporous two-dimensional mixed oxide nanosheets via self-deconstruction/reconstruction of monodispersed metal glycerate nanospheres. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5971-5983.	10.3	81
36	Conversion of interlocked cube-like Mn <sub>3</sub> O <sub>4</sub> into nanoflakes of layered birnessite MnO <sub>2</sub> during supercapacitive studies. <i>Journal of Alloys and Compounds</i> , 2010, 496, 370-375.	5.5	79

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37	Controlled growth of polythiophene nanofibers in TiO <sub>2</sub> nanotube arrays for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 172-180.	10.3	76
38	Liquefied petroleum gas (LPG) sensing properties of nanocrystalline CdO thin films prepared by chemical route: Effect of molarities of precursor solution. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 296-301.	7.8	75
39	Sprayed CdO thin films for liquefied petroleum gas (LPG) detection. <i>Sensors and Actuators B: Chemical</i> , 2009, 140, 86-91.	7.8	75
40	Improved response of CdO nanorods towards liquefied petroleum gas (LPG): Effect of Pd sensitization. <i>Sensors and Actuators B: Chemical</i> , 2009, 136, 39-44.	7.8	73
41	Phosphonate-Derived Nanoporous Metal Phosphates and Their Superior Energy Storage Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 9790-9797.	8.0	71
42	Room temperature LPG sensor based on n-CdS/p-polyaniline heterojunction. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 205-210.	7.8	69
43	Significant Effect of Pore Sizes on Energy Storage in Nanoporous Carbon Supercapacitors. <i>Chemistry - A European Journal</i> , 2018, 24, 6127-6132.	3.3	68
44	Controlled Synthesis of Nanoporous Nickel Oxide with Two-Dimensional Shapes through Thermal Decomposition of Metal-Cyanide Hybrid Coordination Polymers. <i>Chemistry - A European Journal</i> , 2015, 21, 3605-3612.	3.3	64
45	Three-Dimensional Nitrogen-Doped Hierarchical Porous Carbon as an Electrode for High-Performance Supercapacitors. <i>Chemistry - A European Journal</i> , 2015, 21, 17293-17298.	3.3	63
46	Structural, electrical and optical studies of SILAR deposited cadmium oxide thin films: Annealing effect. <i>Materials Research Bulletin</i> , 2009, 44, 364-368.	5.2	62
47	Presenting highest supercapacitance for TiO <sub>2</sub> /MWNTs nanocomposites: Novel method. <i>Chemical Engineering Journal</i> , 2014, 247, 103-110.	12.7	62
48	Zinc Oxide Encapsulated Carbon Nanotube Thin Films for Energy Storage Applications. <i>Electrochimica Acta</i> , 2016, 192, 377-384.	5.2	57
49	Rational design of coaxial structured carbon nanotube-manganese oxide (CNT-MnO <sub>2</sub> ) for energy storage application. <i>Nanotechnology</i> , 2015, 26, 204004.	2.6	55
50	ZIF-8 Derived, Nitrogen-Doped Porous Electrodes of Carbon Polyhedron Particles for High-Performance Electrosorption of Salt Ions. <i>Scientific Reports</i> , 2016, 6, 28847.	3.3	55
51	Effect of Various Carbonization Temperatures on ZIF-67 Derived Nanoporous Carbons. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 939-942.	3.2	53
52	Synthesis and characterization of mesoporous Ni-Co oxy-hydroxides for pseudocapacitor application. <i>Electrochimica Acta</i> , 2013, 94, 104-112.	5.2	52
53	Synthesis of MOF-525 Derived Nanoporous Carbons with Different Particle Sizes for Supercapacitor Application. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2857-2862.	3.3	52
54	Surfactant-assisted synthesis of nanoporous nickel sulfide flakes and their hybridization with reduced graphene oxides for supercapacitor applications. <i>RSC Advances</i> , 2016, 6, 21246-21253.	3.6	45

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55	Temperature impact on morphological evolution of ZnO and its consequent effect on physico-chemical properties. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3486-3492.	5.5	44
56	Single-Crystal-Like Nanoporous Spinel Oxides: A Strategy for Synthesis of Nanoporous Metal Oxides Utilizing Metal-Cyanide Hybrid Coordination Polymers. <i>Chemistry - A European Journal</i> , 2014, 20, 17375-17384.	3.3	41
57	Zinc Ferrite Anchored Multiwalled Carbon Nanotubes for High-Performance Supercapacitor Applications. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 137-142.	2.0	41
58	Photosensitive nanostructured TiO <sub>2</sub> grown at room temperature by novel "bottom-up" approach CBD method. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6196-6199.	5.5	38
59	Hollow carbon nanospheres using an asymmetric triblock copolymer structure directing agent. <i>Chemical Communications</i> , 2017, 53, 236-239.	4.1	37
60	Prussian blue derived iron oxide nanoparticles wrapped in graphene oxide sheets for electrochemical supercapacitors. <i>RSC Advances</i> , 2017, 7, 33994-33999.	3.6	36
61	Towards Vaporized Molecular Discrimination: A Quartz Crystal Microbalance (QCM) Sensor System Using Cobalt-Containing Mesoporous Graphitic Carbon. <i>Chemistry - an Asian Journal</i> , 2014, 9, 3238-3244.	3.3	33
62	Synthesis and characterization of cadmium hydroxide nano-nest by chemical route. <i>Applied Surface Science</i> , 2009, 255, 3923-3926.	6.1	31
63	Liquefied petroleum gas (LPG) sensing performance of electron beam irradiated chemically deposited TiO <sub>2</sub> thin films. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 58-64.	7.8	31
64	An approach towards the growth of polyaniline nanograins by electrochemical route. <i>Applied Surface Science</i> , 2009, 255, 8213-8216.	6.1	26
65	Fabrication of Asymmetric Supercapacitors Based on Coordination Polymer Derived Nanoporous Materials. <i>Electrochimica Acta</i> , 2015, 183, 94-99.	5.2	24
66	High surface area nanoporous carbon derived from high quality jute from Bangladesh. <i>Materials Chemistry and Physics</i> , 2018, 216, 491-495.	4.0	24
67	Two-Dimensional Layered Heterostructures of Nanoporous Carbons Using Reduced Graphene Oxide and Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2022, 34, 4946-4954.	6.7	24
68	Mesoporous nanohybrids of 2D Cobalt-Chromium layered double hydroxide and polyoxovanadate anions for high performance hybrid asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2022, 524, 231065.	7.8	22
69	Multifunctional nanoarchitected porous carbon for solar steam generation and supercapacitor applications. <i>Sustainable Energy and Fuels</i> , 2022, 6, 1762-1769.	4.9	19
70	Effect of electron irradiation on properties of chemically deposited TiO <sub>2</sub> nanorods. <i>Journal of Alloys and Compounds</i> , 2010, 499, 63-67.	5.5	15
71	Direct synthesis of a mesoporous TiO <sub>2</sub> -RuO <sub>2</sub> composite through evaporation-induced polymeric micelle assembly. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10425-10428.	2.8	15
72	Three-Dimensional Macroporous Graphitic Carbon for Supercapacitor Application. <i>ChemistrySelect</i> , 2018, 3, 4522-4526.	1.5	15

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73	Chemical Preparation of Ferroelectric Mesoporous Barium Titanate Thin Films: Drastic Enhancement of Curie Temperature Induced by Mesoporeâ€Derived Strain. Chemistry - A European Journal, 2014, 20, 11283-11286.	3.3	14
74	Controlled Synthesis of Highly Crystallized Mesoporous Mn <sub>2</sub> O <sub>3</sub> and Mn <sub>3</sub> O <sub>4</sub> by Using Anionic Surfactants. Chemistry - an Asian Journal, 2016, 11, 667-673.	3.3	11
75	Facile Low-temperature Chemical Synthesis and Characterization of a Manganese Oxide/multi-walled Carbon Nanotube Composite for Supercapacitor Applications. Bulletin of the Korean Chemical Society, 2014, 35, 2974-2978.	1.9	11
76	Block copolymer-assisted synthesis of VO <sub>2</sub> (B) microflowers for supercapacitor applications. Chemical Communications, 2021, 57, 13748-13751.	4.1	10
77	A Simple Approach to Generate Hollow Carbon Nanospheres Loaded with Uniformly Dispersed Metal Nanoparticles. European Journal of Inorganic Chemistry, 2017, 2017, 5413-5416.	2.0	3
78	Controlled Synthesis of Nanoporous Nickel Oxide with Twoâ€Dimensional Shapes through Thermal Decomposition of Metalâ€Cyanide Hybrid Coordination Polymers. Chemistry - A European Journal, 2015, 21, 3509-3509.	3.3	2
79	Nanoporous Metal Oxides for Supercapacitor Applications. , 2021, , 601-621.		2
80	Cover Picture: Controlled Synthesis of Nanoporous Nickel Oxide with Twoâ€Dimensional Shapes through Thermal Decomposition of Metalâ€Cyanide Hybrid Coordination Polymers (Chem. Eur. J.) Tj ETQq0 0 0 rgB3/Overlook 10 Tf 50		