

Vipin Kumar

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

1,745
citations

22
h-index

38
g-index

38
ext. papers

2,076
ext. citations

10.6
avg, IF

5.2
L-index

#	Paper	IF	Citations
35	Highly Transparent, Stretchable, and Self-Healing Ionic-Skin Triboelectric Nanogenerators for Energy Harvesting and Touch Applications. <i>Advanced Materials</i> , 2017 , 29, 1702181	24	255
34	Enhanced Piezoelectric Energy Harvesting Performance of Flexible PVDF-TrFE Bilayer Films with Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 521-9	9.5	221
33	Metal Organic Framework-Derived Metal Phosphates as Electrode Materials for Supercapacitors. <i>Advanced Energy Materials</i> , 2016 , 6, 1501833	21.8	165
32	Ultra-large optical modulation of electrochromic porous WO film and the local monitoring of redox activity. <i>Chemical Science</i> , 2016 , 7, 1373-1382	9.4	153
31	MOFs-derived copper sulfides embedded within porous carbon octahedra for electrochemical capacitor applications. <i>Chemical Communications</i> , 2015 , 51, 3109-12	5.8	135
30	Self-powered pressure sensor for ultra-wide range pressure detection. <i>Nano Research</i> , 2017 , 10, 3557-3570	7.0	85
29	Fast charging self-powered electric double layer capacitor. <i>Journal of Power Sources</i> , 2017 , 342, 70-78	8.9	70
28	Redox Active Polyaniline-h-MoO ₃ Hollow Nanorods for Improved Pseudocapacitive Performance. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9041-9049	3.8	67
27	An artificial metal-alloy interphase for high-rate and long-life sodium-sulfur batteries. <i>Energy Storage Materials</i> , 2020 , 29, 1-8	19.4	62
26	Formation of hexagonal-molybdenum trioxide (h-MoO ₃) nanostructures and their pseudocapacitive behavior. <i>Nanoscale</i> , 2015 , 7, 11777-86	7.7	60
25	Room-Temperature Sodium-Sulfur Batteries and Beyond: Realizing Practical High Energy Systems through Anode, Cathode, and Electrolyte Engineering. <i>Advanced Energy Materials</i> , 2021 , 11, 2003493	21.8	50
24	Topotactic Phase Transformation of Hexagonal MoO ₃ to Layered MoO ₃ -II and Its Two-Dimensional (2D) Nanosheets. <i>Chemistry of Materials</i> , 2014 , 26, 5533-5539	9.6	46
23	Insights on the fundamental capacitive behavior: a case study of MnO ₂ . <i>Small</i> , 2014 , 10, 3568-78	11	41
22	Aniline Tetramer-Graphene Oxide Composites for High Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2014 , 4, 1400781	21.8	38
21	A Biphasic Interphase Design Enabling High Performance in Room Temperature Sodium-Sulfur Batteries. <i>Cell Reports Physical Science</i> , 2020 , 1, 100044	6.1	34
20	Tailoring binder-cathode interactions for long-life room-temperature sodium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22983-22997	13	29
19	Ti-Doped WO ₃ synthesized by a facile wet bath method for improved electrochromism. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9995-10000	7.1	27

18	Design of Mixed-Metal Silver Decamolybdate Nanostructures for High Specific Energies at High Power Density. <i>Advanced Materials</i> , 2016 , 28, 6966-75	24	27
17	Multi-responsive supercapacitors: Smart solution to store electrical energy. <i>Materials Today Energy</i> , 2017 , 4, 41-57	7	25
16	A High-Performance Magnesium Triflate-based Electrolyte for Rechargeable Magnesium Batteries. <i>Cell Reports Physical Science</i> , 2020 , 1, 100265	6.1	24
15	Synthesis of pyramidal and prismatic hexagonal MoO ₃ nanorods using thiourea. <i>CrystEngComm</i> , 2013 , 15, 7663	3.3	23
14	The effect of deposition time on the structural and optical properties of Bi ₂ Te nanowires grown using CVD technique. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	22
13	Investigation of Charge Transfer Kinetics at Carbon/Hydroquinone Interfaces for Redox-Active-Electrolyte Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33728-33734	9.5	19
12	Design and construction of a three-dimensional electrode with biomass-derived carbon current collector and water-soluble binder for high-sulfur-loading lithium-sulfur batteries 2020 , 2, 635-645		15
11	Theory-guided experimental design in battery materials research.. <i>Science Advances</i> , 2022 , 8, eabm2422	14.3	9
10	Recent advances in cathode engineering to enable reversible room-temperature aluminium-sulfur batteries. <i>Nanoscale Advances</i> , 2021 , 3, 1569-1581	5.1	8
9	Unveiling the physiochemical aspects of the matrix in improving sulfur-loading for room-temperature sodium-sulfur batteries. <i>Materials Advances</i> , 2021 , 2, 4165-4189	3.3	8
8	Localized Charge Transfer in Two-Dimensional Molybdenum Trioxide. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27045-27053	9.5	7
7	Oxygen-Ions-Mediated Pseudocapacitive Charge Storage in Molybdenum Trioxide Nanobelts. <i>ChemNanoMat</i> , 2015 , 1, 403-408	3.5	3
6	Towards autonomous high-throughput multiscale modelling of battery interfaces. <i>Energy and Environmental Science</i> ,	35.4	3
5	Implications of Na-ion solvation on Na anode-electrolyte interphase. <i>Trends in Chemistry</i> , 2021 ,	14.8	3
4	Challenges in regulating interfacial-chemistry of the sodium-metal anode for room-temperature sodium-sulfur batteries. <i>Energy Storage</i> , e264	2.8	3
3	Guiding Uniform Sodium Deposition through Host Modification for Sodium Metal Batteries. <i>Batteries and Supercaps</i> ,	5.6	3
2	Exploration of the Unique Structural Chemistry of Sulfur Cathode for High-Energy Rechargeable Beyond-Li Batteries. <i>Advanced Energy and Sustainability Research</i> , 2100157	1.6	2
1	Tri-rutile layered niobium-molybdates for all solid-state symmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20141-20150	13	2

