

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.

65
papers

2,267
citations

25
h-index

47
g-index

70
ext. papers

2,666
ext. citations

7.4
avg, IF

5.49
L-index

#	Paper	IF	Citations
65	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
64	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
63	Metal Organic Framework-Derived Metal Phosphates as Electrode Materials for Supercapacitors. <i>Advanced Energy Materials</i> , 2016 , 6, 1501833	21.8	165
62	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
61	MOFs-derived copper sulfides embedded within porous carbon octahedra for electrochemical capacitor applications. <i>Chemical Communications</i> , 2015 , 51, 3109-12	5.8	135
60	Carbon Coated Bimetallic Sulfide Hollow Nanocubes as Advanced Sodium Ion Battery Anode. <i>Advanced Energy Materials</i> , 2017 , 7, 1700180	21.8	112
59	Self-powered pressure sensor for ultra-wide range pressure detection. <i>Nano Research</i> , 2017 , 10, 3557-3570	10	85
58	Fast charging self-powered electric double layer capacitor. <i>Journal of Power Sources</i> , 2017 , 342, 70-78	8.9	70
57	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
56	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
55	Formation of hexagonal-molybdenum trioxide (h-MoO ₃) nanostructures and their pseudocapacitive behavior. <i>Nanoscale</i> , 2015 , 7, 11777-86	7.7	60
54	Mechanical and electrical properties of PANI-based conductive thermosetting composites. <i>Journal of Reinforced Plastics and Composites</i> , 2015 , 34, 1298-1305	2.9	49
53	Interleaved MWCNT buckypaper between CFRP laminates to improve through-thickness electrical conductivity and reducing lightning strike damage. <i>Composite Structures</i> , 2019 , 210, 581-589	5.3	47
52	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
51	Highly conductive graphene oxide/polyaniline hybrid polymer nanocomposites with simultaneously improved mechanical properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 82, 100-107	8.4	44
50	Insights on the fundamental capacitive behavior: a case study of MnO ₂ . <i>Small</i> , 2014 , 10, 3568-78	11	41
49	Aniline Tetramer-Graphene Oxide Composites for High Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2014 , 4, 1400781	21.8	38

48	Effect of through-thickness electrical conductivity of CFRPs on lightning strike damages. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 114, 429-438	8.4	38
47	Enhanced thermomechanical and electrical properties of multiwalled carbon nanotube paper reinforced epoxy laminar composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 104, 129-138	8.4	37
46	Synthesis and characterization of PANI-DBSA/DVB composite using roll-milled PANI-DBSA complex. <i>Polymer</i> , 2016 , 86, 129-137	3.9	36
45	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
44	Factors affecting direct lightning strike damage to fiber reinforced composites: A review. <i>Composites Part B: Engineering</i> , 2020 , 183, 107688	10	31
43	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
42	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
41	Multi-responsive supercapacitors: Smart solution to store electrical energy. <i>Materials Today Energy</i> , 2017 , 4, 41-57	7	25
40	Improved thermomechanical and electrical properties of reduced graphene oxide reinforced polyaniline - dodecylbenzenesulfonic acid/divinylbenzene nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2019 , 533, 548-560	9.3	25
39	Improved environmental stability, electrical and EMI shielding properties of vapor-grown carbon fiber-filled polyaniline-based nanocomposite. <i>Polymer Engineering and Science</i> , 2019 , 59, 956-963	2.3	24
38	Irreversible tunability of through-thickness electrical conductivity of polyaniline-based CFRP by de-doping. <i>Composites Science and Technology</i> , 2017 , 152, 20-26	8.6	24
37	Polyaniline-based all-polymeric adhesive layer: An effective lightning strike protection technology for high residual mechanical strength of CFRPs. <i>Composites Science and Technology</i> , 2019 , 172, 49-57	8.6	24
36	Synthesis of pyramidal and prismatic hexagonal MoO ₃ nanorods using thiourea. <i>CrystEngComm</i> , 2013 , 15, 7663	3.3	23
35	Design of MWCNT bucky paper reinforced PANI/DBSA/DVB composites with superior electrical and mechanical properties. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12396-12406	7.1	23
34	The effect of deposition time on the structural and optical properties of ZnGa ₂ O ₃ nanowires grown using CVD technique. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	22
33	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
32	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
31	Polymer Light-Emitting Electrochemical Cell Blends Based on Selection of Lithium Salts, LiX [X = Trifluoromethanesulfonate, Hexafluorophosphate, and Bis(trifluoromethylsulfonyl)imide] with Low Turn-On Voltage. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 11324-11330	3.8	14

30	Reduced de-doping and enhanced electrical conductivity of polyaniline filled phenol-divinylbenzene composite for potential lightning strike protection application. <i>Synthetic Metals</i> , 2019 , 249, 81-89	3.6	13
29	Frequency independent AC electrical conductivity and dielectric properties of polyaniline-based conductive thermosetting composite. <i>Journal of Polymer Engineering</i> , 2018 , 38, 955-961	1.4	12
28	Strain sensing behavior of multifunctional polyaniline-based thermoset polymer under static loading conditions. <i>Polymer Testing</i> , 2019 , 77, 105916	4.5	11
27	Study on effective thermal conductivity of zinc sulphide/poly(methyl methacrylate) nanocomposites. <i>Applied Nanoscience (Switzerland)</i> , 2015 , 5, 697-702	3.3	11
26	Scavenging phenomenon and improved electrical and mechanical properties of polyaniline-divinylbenzene composite in presence of MWCNT. <i>International Journal of Mechanics and Materials in Design</i> , 2018 , 14, 697-708	2.5	10
25	Internal arcing and lightning strike damage in short carbon fiber reinforced thermoplastic composites. <i>Composites Science and Technology</i> , 2021 , 201, 108525	8.6	8
24	Recent advances in cathode engineering to enable reversible room-temperature aluminium-sulfur batteries. <i>Nanoscale Advances</i> , 2021 , 3, 1569-1581	5.1	8
23	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
22	Localized Charge Transfer in Two-Dimensional Molybdenum Trioxide. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27045-27053	9.5	7
21	Cationic scavenging by polyaniline: Boon or bane from synthesis point of view of its nanocomposites. <i>Polymer</i> , 2018 , 149, 169-177	3.9	7
20	Processing and mechanical characterization of short carbon fiber-reinforced epoxy composites for material extrusion additive manufacturing. <i>Composites Part B: Engineering</i> , 2021 , 223, 109122	10	6
19	Melt extruded versus extrusion compression molded glass-polypropylene long fiber thermoplastic composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 144, 106349	8.4	5
18	High-performance molded composites using additively manufactured preforms with controlled fiber and pore morphology. <i>Additive Manufacturing</i> , 2021 , 37, 101733	6.1	5
17	Synthesis and characterization of PANI/P-2M conductive composites: Thermal, rheological, mechanical, and electrical properties. <i>Polymer Composites</i> , 2019 , 40, 4321-4328	3	4
16	Performance evaluation of Ag/SnO ₂ nanocomposite materials as coating material with high capability on antibacterial activity. <i>Ain Shams Engineering Journal</i> , 2020 , 11, 767-776	4.4	4
15	Structures and UV resistance of Ag/SnO ₂ nanocomposite materials synthesized by horizontal vapor phase growth for coating applications. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 4806-4816	5.5	3
14	Electrically conductive carbon fiber layers as lightning strike protection for non-conductive epoxy-based CFRP substrate. <i>Journal of Composite Materials</i> , 2020 , 54, 4547-4555	2.7	3
13	Oxygen-Ions-Mediated Pseudocapacitive Charge Storage in Molybdenum Trioxide Nanobelts. <i>ChemNanoMat</i> , 2015 , 1, 403-408	3.5	3

12	Comparison of semi-doped PANI/DBSA complex achieved by thermal doping and roll-mill process: A new perspective for application. <i>Polymer</i> , 2020 , 202, 122723	3.9	3
11	Challenges in regulating interfacial-chemistry of the sodium-metal anode for room-temperature sodium-sulfur batteries. <i>Energy Storage</i> , e264	2.8	3
10	MXene Reinforced Thermosetting Composite for Lightning Strike Protection of Carbon Fiber Reinforced Polymer. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100803	4.6	3
9	Simulated lightning strike investigation of CFRP comprising a novel polyaniline/phenol based electrically conductive resin matrix. <i>Composites Science and Technology</i> , 2021 , 214, 108971	8.6	3
8	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
7	Tri-rutile layered niobium-molybdates for all solid-state symmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20141-20150	13	2
6	Introducing a curable dopant with methacrylate functionality for polyaniline based composites. <i>Polymer Testing</i> , 2019 , 73, 171-177	4.5	2
5	Thickness threshold study of polyaniline-based lightning strike protection coating for carbon/glass fiber reinforced polymer composites. <i>Composite Structures</i> , 2021 , 280, 114954	5.3	1
4	Large-scale additive manufacturing tooling for extrusion-compression molds. <i>Additive Manufacturing Letters</i> , 2021 , 1, 100007		1
3	Evaluating the Lightning Strike Damage Tolerance for CFRP Composite Laminates Containing Conductive Nanofillers. <i>Applied Composite Materials</i> , 1	2	1
2	Lightning Strike Damage of CF/Epoxy Composite Laminates with Conductive Polymer Layers. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 1022-1030	0.4	
1	Introduction to 3D Printing Technology for Biomedical Applications. <i>Gels Horizons: From Science To Smart Materials</i> , 2021 , 1-26		