

Chandra S Sharma

List of Publications by Year in Descending Order

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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.

75
papers

1,438
citations

22
h-index

33
g-index

78
ext. papers

1,719
ext. citations

4.1
avg, IF

5.43
L-index

#	Paper	IF	Citations
75	Borassus flabellifer Fruit Flesh Derived Hierarchical Porous Partly Graphitic Carbon as a Sustainable Electrode for Supercapacitors. <i>Energy & Fuels</i> , 2022 , 36, 638-654	4.1	1
74	Neem oil encapsulated electrospun polyurethane nanofibrous bags for seed storage: A step toward sustainable agriculture. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50003	2.9	3
73	Electrospun freestanding hydrophobic fabric as a potential polymer semi-permeable membrane for islet encapsulation. <i>Materials Science and Engineering C</i> , 2021 , 118, 111409	8.3	5
72	Carbon-Based Hybrid Interlayer to Anchor the Shuttling of Polysulfides for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8294-8302	6.1	4
71	Pencil lead powder as a cost-effective and high-performance graphite-silica composite anode for high performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 872, 159719	5.7	2
70	Protective interlayer for trapping polysulfides and a conducting host for sulfur: dual role of candle soot carbon for the development of high performance lithium-sulfur batteries. <i>Materials Advances</i> , 2021 , 2, 3031-3041	3.3	3
69	Morphology-Controlled Molybdenum Disulfide/Candle Soot Carbon Composite for High-Performance Supercapacitor. <i>ChemistrySelect</i> , 2020 , 5, 6809-6817	1.8	4
68	Honey and curcumin loaded multilayered polyvinylalcohol/cellulose acetate electrospun nanofibrous mat for wound healing. <i>Journal of Materials Research</i> , 2020 , 35, 600-609	2.5	16
67	Gelatin nanofiber assisted zero order release of Amphotericin-B: A study with realistic drug loading for oral formulation. <i>Materials Today Communications</i> , 2020 , 24, 100953	2.5	6
66	Urea-modified candle soot for enhanced anodic performance for fast-charging lithium-ion battery application. <i>Materials Today Communications</i> , 2020 , 23, 100926	2.5	7
65	Carbon Nanosheets Decorated Activated Carbon Derived from Borassus Flabellifer Fruit Skin for High Performance Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 140508	3.9	4
64	Carbon soot over layered sulfur impregnated coconut husk derived carbon: An efficient polysulfide suppressor for lithium sulfur battery. <i>Materials Today Communications</i> , 2020 , 22, 100717	2.5	7
63	Review Pencil Graphite Electrodes as Platform for Enzyme and Enzyme-Like Protein Immobilization for Electrochemical Detection. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 037520	3.9	12
62	Pseudocapacitance induced candle soot derived carbon for high energy density electrochemical supercapacitors: Non-aqueous approach. <i>Journal of Energy Storage</i> , 2020 , 27, 101114	7.8	23
61	Multiscale 3D hybrid carbon microelectrodes with candle soot and reduced GO nanoparticles as binder-free anode: An approach beyond 3D for high rate & high performance Li-ion batteries. <i>Journal of Power Sources</i> , 2020 , 473, 228600	8.9	5
60	Bacterial Cellulose-Polyaniline Composite Derived Hierarchical Nitrogen-Doped Porous Carbon Nanofibers as Anode for High-Rate Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8676-8687	6.1	20
59	Synergic effect of nanostructuring and excess Mn ³⁺ content in the electrochemical performance of Li ₄ Ti ₅ O ₁₂ /Ni _{0.5} Mn _{1.5} O ₄ Li-ion full-cells. <i>Journal of Materials Research</i> , 2020 , 35, 42-50	2.5	1

58	Mimicking flower petals to fabricate self-cleaning and antireflective polymer surfaces. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2020 , 9, 45-52	1.3	1
57	PAN/(PAN-b-PMMA) derived nanoporous carbon nanofibers loaded on ZnO nanostructures for hydrogen detection. <i>Sensors and Actuators B: Chemical</i> , 2019 , 299, 126980	8.5	16
56	Tuning the physiochemical properties of bacterial cellulose: effect of drying conditions. <i>Journal of Materials Science</i> , 2019 , 54, 12024-12035	4.3	25
55	Modulated Dehydration for Enhanced Anodic Performance of Bacterial Cellulose derived Carbon Nanofibers. <i>ChemistrySelect</i> , 2019 , 4, 6642-6650	1.8	4
54	Fabrication of Self-cleaning Antireflective Polymer Surfaces by Mimicking Underside Leaf Hierarchical Surface Structures. <i>Journal of Bionic Engineering</i> , 2019 , 16, 400-409	2.7	8
53	Graphite coated pyrolyzed filter paper as a low-cost binder-free and freestanding anode for practical lithium-ion battery application. <i>Electrochimica Acta</i> , 2019 , 310, 222-229	6.7	20
52	Recycling of thermoplastic polystyrene waste using citrus peel extract for oil spill remediation. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47886	2.9	10
51	On-chip anticancer drug screening - Recent progress in microfluidic platforms to address challenges in chemotherapy. <i>Biosensors and Bioelectronics</i> , 2019 , 137, 236-254	11.8	43
50	Enhanced catalytic graphitization of resorcinol formaldehyde derived carbon xerogel to improve its anodic performance for lithium ion battery. <i>Materials Today Communications</i> , 2019 , 20, 100569	2.5	12
49	Frequency analysis of hexagonal microbeam with 2D nanofiber mat. <i>Materials Research Express</i> , 2019 , 6, 085631	1.7	1
48	Surface Texturing of Silicon {100} in an Extremely Low Concentration TMAH for Minimized Reflectivity. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, P622-P628	2	4
47	Investigation of poly(vinyl) alcohol-gellan gum based nanofiber as scaffolds for tissue engineering applications. <i>Journal of Drug Delivery Science and Technology</i> , 2019 , 54, 101276	4.5	21
46	Enhanced osteodifferentiation of MSC spheroids on patterned electrospun fiber mats - An advanced 3D double strategy for bone tissue regeneration. <i>Materials Science and Engineering C</i> , 2019 , 94, 703-712	8.3	26
45	Resorcinol-formaldehyde derived carbon xerogels: A promising anode material for lithium-ion battery. <i>Journal of Materials Research</i> , 2018 , 33, 1074-1087	2.5	12
44	Effect of patterned electrospun hierarchical structures on alignment and differentiation of mesenchymal stem cells: Biomimicking bone. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e2073-e2084	4.4	18
43	Novel and green processes for citrus peel extract: a natural solvent to source of carbon. <i>Polymer Bulletin</i> , 2018 , 75, 5133-5142	2.4	4
42	Poly(styrene-block-methylmethacrylate) derived electrospun mesoporous nanofibers. <i>Surfaces and Interfaces</i> , 2018 , 12, 168-178	4.1	3
41	Bacterial cellulose-derived carbon nanofibers as anode for lithium-ion batteries. <i>Emergent Materials</i> , 2018 , 1, 105-120	3.5	21

40	Facile Synthesis of Corn Silk Derived Nanoporous Carbon for an Improved Supercapacitor Performance. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A3369-A3379	3.9	30
39	Nano-grained SnO ₂ /Li ₄ Ti ₅ O ₁₂ composite hollow fibers via sol-gel/ electrospinning as anode material for Li-ion batteries. <i>Materials Today Energy</i> , 2017 , 4, 14-24	7	13
38	Effect of Current Collector and Pyrolysis Temperature on the Electrochemical Performance of Photoresist Derived Carbon Films. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, M3001-M3006	2.06	4
37	Three-dimensional bioprinting for bone tissue regeneration. <i>Current Opinion in Biomedical Engineering</i> , 2017 , 2, 22-28	4.4	44
36	Synthesis of Patterned Vertically Aligned Carbon Nanotubes by PECVD Using Different Growth Techniques: A Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 2256-273	1.3	19
35	Sustained drug release from multi-layered sequentially crosslinked electrospun gelatin nanofiber mesh. <i>Materials Science and Engineering C</i> , 2017 , 76, 782-786	8.3	36
34	Fabrication of bio-inspired hydrophobic self-assembled electrospun nanofiber based hierarchical structures. <i>Materials Letters</i> , 2017 , 196, 339-342	3.3	11
33	Electrospun Fibers for Recruitment and Differentiation of Stem Cells in Regenerative Medicine. <i>Biotechnology Journal</i> , 2017 , 12, 1700263	5.6	25
32	Fluoride adsorption from aqueous solution using activated carbon obtained from KOH-treated jamun (<i>Syzygium cumini</i>) seed. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 5608-5616	6.8	49
31	Effect of micropatterning induced surface hydrophobicity on drug release from electrospun cellulose acetate nanofibers. <i>Applied Surface Science</i> , 2017 , 426, 755-762	6.7	26
30	Low temperature catalyst-assisted pyrolysis of polymer precursors to carbon. <i>Bulletin of Materials Science</i> , 2017 , 40, 1519-1527	1.7	2
29	SU-8 photoresist-derived electrospun carbon nanofibres as high-capacity anode material for lithium ion battery. <i>Bulletin of Materials Science</i> , 2017 , 40, 435-439	1.7	7
28	One step direct synthesis of multiwalled carbon nanotubes from coconut shell derived charcoal. <i>Materials Letters</i> , 2017 , 188, 205-207	3.3	19
27	Electrochemical Detection of Cardiac Biomarkers Utilizing Electrospun Multiwalled Carbon Nanotubes Embedded SU-8 Nanofibers. <i>Electroanalysis</i> , 2017 , 29, 380-386	3	17
26	Cellulose Acetate Derived Free-Standing Electrospun Carbon Nanofibrous Mat as Anode Material for Rechargeable Lithium-Ion Battery. <i>ECS Transactions</i> , 2017 , 80, 419-424	1	3
25	High absorbency cellulose acetate electrospun nanofibers for feminine hygiene application. <i>Applied Materials Today</i> , 2016 , 4, 62-70	6.6	20
24	Caterpillar-like sub-micron LiNi _{0.5} Mn _{1.5} O ₄ structures with site disorder and excess Mn ³⁺ as high performance cathode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2016 , 212, 500-509	6.7	23
23	An ultrasensitive label free nanobiosensor platform for the detection of cardiac biomarkers. <i>Biomedical Microdevices</i> , 2016 , 18, 111	3.7	22

22	In-vitro release study of hydrophobic drug using electrospun cross-linked gelatin nanofibers. <i>Biochemical Engineering Journal</i> , 2016 , 105, 481-488	4.2	57
21	Catalytic graphitization of resorcinol-formaldehyde xerogel and its effect on lithium ion intercalation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016 , 117, 317-324	6	23
20	Ultrasensitive, Label Free, Chemiresistive Nanobiosensor Using Multiwalled Carbon Nanotubes Embedded Electrospun SU-8 Nanofibers. <i>Sensors</i> , 2016 , 16,	3.8	15
19	SU-8/MWCNT derived Electrospun Composite Carbon Nanofabric as a High Performance Anode Material for Lithium Ion Battery. <i>ECS Transactions</i> , 2016 , 72, 69-74	1	3
18	Controlled Drug Release Formulation by Sequential Crosslinking of Multilayered Electrospun Gelatin Nanofiber Mat. <i>MRS Advances</i> , 2016 , 1, 2107-2113	0.7	6
17	Electrospun gelatin nanofibers as drug carrier: effect of crosslinking on sustained release. <i>Materials Today: Proceedings</i> , 2016 , 3, 3484-3491	1.4	14
16	Candle Soot derived Fractal-like Carbon Nanoparticles Network as High-Rate Lithium Ion Battery Anode Material. <i>Electrochimica Acta</i> , 2015 , 180, 353-359	6.7	75
15	Effect of Pyrolysis Temperature on Electrochemical Performance of SU-8 Photoresist Derived Carbon Films. <i>ECS Transactions</i> , 2015 , 66, 57-66	1	4
14	Donut-shaped Li ₄ Ti ₅ O ₁₂ structures as a high performance anode material for lithium ion batteries. <i>Small</i> , 2015 , 11, 290-4	11	68
13	Synthesis of carbon xerogel nanoparticles by inverse emulsion polymerization of resorcinol/formaldehyde and their use as anode materials for lithium-ion battery. <i>RSC Advances</i> , 2015 , 5, 4747-4753	3.7	25
12	Fabrication and surface functionalization of electrospun polystyrene submicron fibers with controllable surface roughness. <i>RSC Advances</i> , 2014 , 4, 12188	3.7	23
11	Biomimicked high-aspect-ratio hierarchical superhydrophobic polymer surfaces. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2014 , 3, 4-9	1.3	7
10	Electrochemical Performance of Lithium Titanate Submicron Rods Synthesized by Sol-Gel/Electrospinning. <i>Electroanalysis</i> , 2014 , 26, 2315-2319	3	8
9	Electrospinning Combined with Nonsolvent-Induced Phase Separation To Fabricate Highly Porous and Hollow Submicrometer Polymer Fibers. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1761-1766	3.9	105
8	Biomimicked Superhydrophobic Polymeric and Carbon Surfaces. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 13012-13020	3.9	21
7	Fabrication and electrical conductivity of suspended carbon nanofiber arrays. <i>Carbon</i> , 2011 , 49, 1727-1732	2.4	54
6	Photoresist Derived Electrospun Carbon Nanofibers with Tunable Morphology and Surface Properties. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 2731-2739	3.9	28
5	Multiscale carbon structures fabricated by direct micropatterning of electrospun mats of SU-8 photoresist nanofibers. <i>Langmuir</i> , 2010 , 26, 2218-22	4	66

4	Microfabrication of carbon structures by pattern miniaturization in resorcinol-formaldehyde gel. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 2193-7	9.5	13
3	Synthesis of carbon xerogel particles and fractal-like structures. <i>Chemical Engineering Science</i> , 2009 , 64, 1536-1543	4.4	41
2	Resorcinol-formaldehyde based carbon nanospheres by electrospraying. <i>Bulletin of Materials Science</i> , 2009 , 32, 239-246	1.7	21
1	Controlling the Morphology of Resorcinol-Formaldehyde-Based Carbon Xerogels by Sol Concentration, Shearing, and Surfactants. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 8030-8036	3.9	13