

# Chandra S Sharma

## 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.

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	Electrospinning Combined with Nonsolvent-Induced Phase Separation To Fabricate Highly Porous and Hollow Submicrometer Polymer Fibers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 1761-1766	3.9	105
74	Candle Soot derived Fractal-like Carbon Nanoparticles Network as High-Rate Lithium Ion Battery Anode Material. <i>Electrochimica Acta</i> , <b>2015</b> , 180, 353-359	6.7	75
73	Donut-shaped Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> structures as a high performance anode material for lithium ion batteries. <i>Small</i> , <b>2015</b> , 11, 290-4	11	68
72	Multiscale carbon structures fabricated by direct micropatterning of electrospun mats of SU-8 photoresist nanofibers. <i>Langmuir</i> , <b>2010</b> , 26, 2218-22	4	66
71	In-vitro release study of hydrophobic drug using electrospun cross-linked gelatin nanofibers. <i>Biochemical Engineering Journal</i> , <b>2016</b> , 105, 481-488	4.2	57
70	Fabrication and electrical conductivity of suspended carbon nanofiber arrays. <i>Carbon</i> , <b>2011</b> , 49, 1727-1732	4	54
69	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> , <b>2017</b> , 5, 5608-5616	6.8	49
68	Three-dimensional bioprinting for bone tissue regeneration. <i>Current Opinion in Biomedical Engineering</i> , <b>2017</b> , 2, 22-28	4.4	44
67	On-chip anticancer drug screening - Recent progress in microfluidic platforms to address challenges in chemotherapy. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 137, 236-254	11.8	43
66	Synthesis of carbon xerogel particles and fractal-like structures. <i>Chemical Engineering Science</i> , <b>2009</b> , 64, 1536-1543	4.4	41
65	Sustained drug release from multi-layered sequentially crosslinked electrospun gelatin nanofiber mesh. <i>Materials Science and Engineering C</i> , <b>2017</b> , 76, 782-786	8.3	36
64	Facile Synthesis of Corn Silk Derived Nanoporous Carbon for an Improved Supercapacitor Performance. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3369-A3379	3.9	30
63	Photoresist Derived Electrospun Carbon Nanofibers with Tunable Morphology and Surface Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 2731-2739	3.9	28
62	Effect of micropatterning induced surface hydrophobicity on drug release from electrospun cellulose acetate nanofibers. <i>Applied Surface Science</i> , <b>2017</b> , 426, 755-762	6.7	26
61	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> , <b>2019</b> , 94, 703-712	8.3	26
60	Electrospun Fibers for Recruitment and Differentiation of Stem Cells in Regenerative Medicine. <i>Biotechnology Journal</i> , <b>2017</b> , 12, 1700263	5.6	25
59	Tuning the physiochemical properties of bacterial cellulose: effect of drying conditions. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 12024-12035	4.3	25

58	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> , <b>2015</b> , 5, 4747-4753	3.7	25
57	Caterpillar-like sub-micron LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> structures with site disorder and excess Mn <sup>3+</sup> as high performance cathode material for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 212, 500-509	6.7	23
56	Catalytic graphitization of resorcinol-formaldehyde xerogel and its effect on lithium ion intercalation. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 117, 317-324	6	23
55	Fabrication and surface functionalization of electrospun polystyrene submicron fibers with controllable surface roughness. <i>RSC Advances</i> , <b>2014</b> , 4, 12188	3.7	23
54	Pseudocapacitance induced candle soot derived carbon for high energy density electrochemical supercapacitors: Non-aqueous approach. <i>Journal of Energy Storage</i> , <b>2020</b> , 27, 101114	7.8	23
53	An ultrasensitive label free nanobiosensor platform for the detection of cardiac biomarkers. <i>Biomedical Microdevices</i> , <b>2016</b> , 18, 111	3.7	22
52	Investigation of poly(vinyl) alcohol-gellan gum based nanofiber as scaffolds for tissue engineering applications. <i>Journal of Drug Delivery Science and Technology</i> , <b>2019</b> , 54, 101276	4.5	21
51	Biomimicked Superhydrophobic Polymeric and Carbon Surfaces. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 13012-13020	3.9	21
50	Resorcinol-formaldehyde based carbon nanospheres by electro spraying. <i>Bulletin of Materials Science</i> , <b>2009</b> , 32, 239-246	1.7	21
49	Bacterial cellulose-derived carbon nanofibers as anode for lithium-ion batteries. <i>Emergent Materials</i> , <b>2018</b> , 1, 105-120	3.5	21
48	Graphite coated pyrolyzed filter paper as a low-cost binder-free and freestanding anode for practical lithium-ion battery application. <i>Electrochimica Acta</i> , <b>2019</b> , 310, 222-229	6.7	20
47	High absorbency cellulose acetate electrospun nanofibers for feminine hygiene application. <i>Applied Materials Today</i> , <b>2016</b> , 4, 62-70	6.6	20
46	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> , <b>2020</b> , 3, 8676-8687	6.1	20
45	Synthesis of Patterned Vertically Aligned Carbon Nanotubes by PECVD Using Different Growth Techniques: A Review. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 2256-273	1.3	19
44	One step direct synthesis of multiwalled carbon nanotubes from coconut shell derived charcoal. <i>Materials Letters</i> , <b>2017</b> , 188, 205-207	3.3	19
43	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> , <b>2018</b> , 12, e2073-e2084	4.4	18
42	Electrochemical Detection of Cardiac Biomarkers Utilizing Electrospun Multiwalled Carbon Nanotubes Embedded SU-8 Nanofibers. <i>Electroanalysis</i> , <b>2017</b> , 29, 380-386	3	17
41	PAN/(PAN-b-PMMA) derived nanoporous carbon nanofibers loaded on ZnO nanostructures for hydrogen detection. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 299, 126980	8.5	16

40	Honey and curcumin loaded multilayered polyvinylalcohol/cellulose acetate electrospun nanofibrous mat for wound healing. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 600-609	2.5	16
39	Ultrasensitive, Label Free, Chemiresistive Nanobiosensor Using Multiwalled Carbon Nanotubes Embedded Electrospun SU-8 Nanofibers. <i>Sensors</i> , <b>2016</b> , 16,	3.8	15
38	Electrospun gelatin nanofibers as drug carrier: effect of crosslinking on sustained release. <i>Materials Today: Proceedings</i> , <b>2016</b> , 3, 3484-3491	1.4	14
37	Nano-grained SnO <sub>2</sub> /Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> composite hollow fibers via sol-gel/ electrospinning as anode material for Li- ion batteries. <i>Materials Today Energy</i> , <b>2017</b> , 4, 14-24	7	13
36	Microfabrication of carbon structures by pattern miniaturization in resorcinol-formaldehyde gel. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 2193-7	9.5	13
35	Controlling the Morphology of Resorcinol-Formaldehyde-Based Carbon Xerogels by Sol Concentration, Shearing, and Surfactants. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 8030-8036	3.9	13
34	Resorcinol-formaldehyde derived carbon xerogels: A promising anode material for lithium-ion battery. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 1074-1087	2.5	12
33	Enhanced catalytic graphitization of resorcinol formaldehyde derived carbon xerogel to improve its anodic performance for lithium ion battery. <i>Materials Today Communications</i> , <b>2019</b> , 20, 100569	2.5	12
32	Review Pencil Graphite Electrodes as Platform for Enzyme and Enzyme-Like Protein Immobilization for Electrochemical Detection. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 037520	3.9	12
31	Fabrication of bio-inspired hydrophobic self-assembled electrospun nanofiber based hierarchical structures. <i>Materials Letters</i> , <b>2017</b> , 196, 339-342	3.3	11
30	Recycling of thermoplastic polystyrene waste using citrus peel extract for oil spill remediation. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47886	2.9	10
29	Fabrication of Self-cleaning Antireflective Polymer Surfaces by Mimicking Underside Leaf Hierarchical Surface Structures. <i>Journal of Bionic Engineering</i> , <b>2019</b> , 16, 400-409	2.7	8
28	Electrochemical Performance of Lithium Titanate Submicron Rods Synthesized by Sol-Gel/Electrospinning. <i>Electroanalysis</i> , <b>2014</b> , 26, 2315-2319	3	8
27	Urea-modified candle soot for enhanced anodic performance for fast-charging lithium-ion battery application. <i>Materials Today Communications</i> , <b>2020</b> , 23, 100926	2.5	7
26	Biomimicked high-aspect-ratio hierarchical superhydrophobic polymer surfaces. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , <b>2014</b> , 3, 4-9	1.3	7
25	SU-8 photoresist-derived electrospun carbon nanofibres as high-capacity anode material for lithium ion battery. <i>Bulletin of Materials Science</i> , <b>2017</b> , 40, 435-439	1.7	7
24	Carbon soot over layered sulfur impregnated coconut husk derived carbon: An efficient polysulfide suppressor for lithium sulfur battery. <i>Materials Today Communications</i> , <b>2020</b> , 22, 100717	2.5	7
23	Gelatin nanofiber assisted zero order release of Amphotericin-B: A study with realistic drug loading for oral formulation. <i>Materials Today Communications</i> , <b>2020</b> , 24, 100953	2.5	6

22	Controlled Drug Release Formulation by Sequential Crosslinking of Multilayered Electrospun Gelatin Nanofiber Mat. <i>MRS Advances</i> , <b>2016</b> , 1, 2107-2113	0.7	6
21	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> , <b>2020</b> , 473, 228600	8.9	5
20	Electrospun freestanding hydrophobic fabric as a potential polymer semi-permeable membrane for islet encapsulation. <i>Materials Science and Engineering C</i> , <b>2021</b> , 118, 111409	8.3	5
19	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> , <b>2017</b> , 6, M3001-M3006	3.0	4
18	Modulated Dehydration for Enhanced Anodic Performance of Bacterial Cellulose derived Carbon Nanofibers. <i>ChemistrySelect</i> , <b>2019</b> , 4, 6642-6650	1.8	4
17	Effect of Pyrolysis Temperature on Electrochemical Performance of SU-8 Photoresist Derived Carbon Films. <i>ECS Transactions</i> , <b>2015</b> , 66, 57-66	1	4
16	Morphology-Controlled Molybdenum Disulfide/Candle Soot Carbon Composite for High-Performance Supercapacitor. <i>ChemistrySelect</i> , <b>2020</b> , 5, 6809-6817	1.8	4
15	Novel and green processes for citrus peel extract: a natural solvent to source of carbon. <i>Polymer Bulletin</i> , <b>2018</b> , 75, 5133-5142	2.4	4
14	Surface Texturing of Silicon {100} in an Extremely Low Concentration TMAH for Minimized Reflectivity. <i>ECS Journal of Solid State Science and Technology</i> , <b>2019</b> , 8, P622-P628	2	4
13	Carbon Nanosheets Decorated Activated Carbon Derived from Borassus Flabellifer Fruit Skin for High Performance Supercapacitors. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 140508	3.9	4
12	Carbon-Based Hybrid Interlayer to Anchor the Shuttling of Polysulfides for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 8294-8302	6.1	4
11	Poly(styrene-block-methylmethacrylate) derived electrospun mesoporous nanofibers. <i>Surfaces and Interfaces</i> , <b>2018</b> , 12, 168-178	4.1	3
10	Cellulose Acetate Derived Free-Standing Electrospun Carbon Nanofibrous Mat as Anode Material for Rechargeable Lithium-Ion Battery. <i>ECS Transactions</i> , <b>2017</b> , 80, 419-424	1	3
9	SU-8/MWCNT derived Electrospun Composite Carbon Nanofabric as a High Performance Anode Material for Lithium Ion Battery. <i>ECS Transactions</i> , <b>2016</b> , 72, 69-74	1	3
8	Neem oil encapsulated electrospun polyurethane nanofibrous bags for seed storage: A step toward sustainable agriculture. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50003	2.9	3
7	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> , <b>2021</b> , 2, 3031-3041	3.3	3
6	Low temperature catalyst-assisted pyrolysis of polymer precursors to carbon. <i>Bulletin of Materials Science</i> , <b>2017</b> , 40, 1519-1527	1.7	2
5	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> , <b>2021</b> , 872, 159719	5.7	2

4	Frequency analysis of hexagonal microbeam with 2D nanofiber mat. <i>Materials Research Express</i> , <b>2019</b> , 6, 085631	1.7	1
3	Synergic effect of nanostructuring and excess Mn <sup>3+</sup> content in the electrochemical performance of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /Ni <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Li-ion full-cells. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 42-50	2.5	1
2	Mimicking flower petals to fabricate self-cleaning and antireflective polymer surfaces. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , <b>2020</b> , 9, 45-52	1.3	1
1	Borassus flabellifer Fruit Flesh Derived Hierarchical Porous Partly Graphitic Carbon as a Sustainable Electrode for Supercapacitors. <i>Energy &amp; Fuels</i> , <b>2022</b> , 36, 638-654	4.1	1