

Shouxin Liu

List of Publications by Year in descending order

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115
papers

9,040
citations

46984

47
h-index

42364

92
g-index

118
all docs

118
docs citations

118
times ranked

10283
citing authors

#	ARTICLE	IF	CITATIONS
1	Multipurpose Solar-Thermal Hydrogel Platform for Desalination of Seawater and Subsequent Collection of Atmospheric Water. <i>ACS ES&T Water</i> , 2023, 3, 1740-1746.	2.3	8
2	Carbon dots confined in 3D polymer network: Producing robust room temperature phosphorescence with tunable lifetimes. <i>Chinese Chemical Letters</i> , 2022, 33, 783-787.	4.8	21
3	Exploring the Circular Polarization Capacity from Chiral Cellulose Nanocrystal Films for a Photocontrolled Chiral Helix of Supramolecular Polymers. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	26
4	Boosting solar-thermal-electric conversion of thermoelectrochemical cells by construction of a carboxymethylcellulose-interpenetrated polyacrylamide network. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7785-7791.	5.2	7
5	Sustainable Afterglow Room-Temperature Phosphorescence Emission Materials Generated Using Natural Phenolics. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	7
6	Sustainable Afterglow Room-Temperature Phosphorescence Emission Materials Generated Using Natural Phenolics. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	28
7	Repurposing lignin to generate functional afterglow paper. <i>Cell Reports Physical Science</i> , 2022, 3, 100867.	2.8	3
8	The role of fluorescent carbon dots in crops: Mechanism and applications. <i>SmartMat</i> , 2022, 3, 208-225.	6.4	21
9	Constructing ultra-stable photothermal plastics assisted by carbon dots with photocaged reactivity. <i>Matter</i> , 2022, 5, 2864-2881.	5.0	8
10	Wood-Derived Carbon Materials and Light-Emitting Materials. <i>Advanced Materials</i> , 2021, 33, e2000596.	11.1	75
11	Producing long afterglow by cellulose confinement effect: A wood-inspired design for sustainable phosphorescent materials. <i>Carbon</i> , 2021, 171, 946-952.	5.4	41
12	Compressible, anisotropic lamellar cellulose-based carbon aerogels enhanced by carbon dots for superior energy storage and water deionization. <i>Carbohydrate Polymers</i> , 2021, 252, 117209.	5.1	30
13	Seeking brightness from nature: Sustainable carbon dots-based AIEgens with tunable emission wavelength from natural rosin. <i>Chemical Engineering Journal</i> , 2021, 413, 127457.	6.6	34
14	Hydrothermal synthesis of nitrogen-doped carbon quantum dots from lignin for formaldehyde determination. <i>RSC Advances</i> , 2021, 11, 29178-29185.	1.7	16
15	Integrating photon up- and down-conversion to produce efficient light-harvesting materials for enhancing natural photosynthesis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24308-24314.	5.2	13
16	Biomass-derived tubular carbon materials: progress in synthesis and applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13822-13850.	5.2	31
17	Overview of cellulose-based flexible materials for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7278-7300.	5.2	77
18	Melanin-Inspired Design: Preparing Sustainable Photothermal Materials from Lignin for Energy Generation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7600-7607.	4.0	87

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19	Solar-powered nanostructured biopolymer hygroscopic aerogels for atmospheric water harvesting. <i>Nano Energy</i> , 2021, 80, 105569.	8.2	99
20	Distinct Sustainable Carbon Nanodots Enable Free Radical Photopolymerization, Photo-ATRP and Photo-CuAAC Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10983-10991.	7.2	44
21	Verschiedene nachhaltige Kohlenstoffnanopunkte für die freie radikalische Photopolymerisation, die Photo-ATRP und die Photo-CuACC Chemie. <i>Angewandte Chemie</i> , 2021, 133, 11078-11087.	1.6	4
22	Catalysis Preparation of Biodiesel from Waste <i>Schisandra chinensis</i> Seed Oil with the Ionic Liquid Immobilized in a Magnetic Catalyst: Fe ₃ O ₄ @SiO ₂ @[C4mim]HSO ₄ . <i>ACS Omega</i> , 2021, 6, 7896-7909.	1.6	14
23	Sustainable Carbon Dot-Based AIEgens: Promising Light-Harvesting Materials for Enhancing Photosynthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4139-4145.	3.2	35
24	Rücktitelbild: Verschiedene nachhaltige Kohlenstoffnanopunkte für die freie radikalische Photopolymerisation, die Photo-ATRP und die Photo-CuACC Chemie (<i>Angew. Chem.</i> 19/2021). <i>Angewandte Chemie</i> , 2021, 133, 11096-11096.	1.6	0
25	High-Performance Supercapacitor Device with Ultrathick Electrodes Fabricated from All-Cellulose-Based Carbon Aerogel. <i>Energy & Fuels</i> , 2021, 35, 8295-8302.	2.5	27
26	Isolating High Antimicrobial Ability Lignin From Bamboo Kraft Lignin by Organosolv Fractionation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 683796.	2.0	41
27	Coating of Wood with Fe ₂ O ₃ -Decorated Carbon Nanotubes by One-Step Combustion for Efficient Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22845-22854.	4.0	93
28	Lignin Nanoparticles: Promising Sustainable Building Blocks of Photoluminescent and Haze Films for Improving Efficiency of Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33536-33545.	4.0	13
29	Solar-powered osmotic pump for uranium recovery from seawater. <i>Chemical Engineering Journal</i> , 2021, 416, 129486.	6.6	27
30	Recent development in food emulsion stabilized by plant-based cellulose nanoparticles. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 56, 101512.	3.4	38
31	Sensitive Mechanofluorochromic Carbon Dot-Based AIEgens: Promising Reporting Components for Self-Sensing Plastics. <i>Advanced Optical Materials</i> , 2021, 9, 2101092.	3.6	14
32	Sustainable afterglow materials from lignin inspired by wood phosphorescence. <i>Cell Reports Physical Science</i> , 2021, 2, 100542.	2.8	21
33	Thermal-insulating, flame-retardant and mechanically resistant aerogel based on bio-inspired tubular cellulose. <i>Composites Part B: Engineering</i> , 2021, 220, 108997.	5.9	47
34	Hierarchical porous graphene oxide/carbon foam nanocomposites derived from larch for enhanced CO ₂ capture and energy storage performance. <i>Journal of CO₂ Utilization</i> , 2021, 52, 101666.	3.3	18
35	Fluorescent thermochromic wood-based composite phase change materials based on aggregation-induced emission carbon dots for visual solar-thermal energy conversion and storage. <i>Chemical Engineering Journal</i> , 2021, 424, 130426.	6.6	47
36	Multi-walled carbon nanotubes/carbon foam nanocomposites derived from biomass for CO ₂ capture and supercapacitor applications. <i>Fuel</i> , 2021, 305, 121622.	3.4	30

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37	Moisture-indicating cellulose aerogels for multiple atmospheric water harvesting cycles driven by solar energy. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24650-24660.	5.2	26
38	Flexible, Electrically Conductive, Nanostructured, Asymmetric Aerogel Films for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59174-59184.	4.0	5
39	Kohlenstoff-Nanopunkte als Photokatalysatoren für die freie radikalische und ATRP-basierte radikalische Photopolymerisation mit blauen LEDs. <i>Angewandte Chemie</i> , 2020, 132, 3192-3197.	1.6	16
40	Carbon Dots as a Promising Green Photocatalyst for Free Radical and ATRP-Based Radical Photopolymerization with Blue LEDs. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3166-3171.	7.2	95
41	Natural phenolic compound-iron complexes: sustainable solar absorbers for wood-based solar steam generation devices. <i>RSC Advances</i> , 2020, 10, 1152-1158.	1.7	28
42	Nitrogen and copper (II) co-doped carbon dots for applications in ascorbic acid determination by non-oxidation reduction strategy and cellular imaging. <i>Talanta</i> , 2020, 210, 120649.	2.9	56
43	A Dynamic Gel with Reversible and Tunable Topological Networks and Performances. <i>Matter</i> , 2020, 2, 390-403.	5.0	216
44	Nature-inspired design: p-toluenesulfonic acid-assisted hydrothermally engineered wood for solar steam generation. <i>Nano Energy</i> , 2020, 78, 105322.	8.2	61
45	Luminescent Transparent Wood Based on Lignin-Derived Carbon Dots as a Building Material for Dual-Channel, Real-Time, and Visual Detection of Formaldehyde Gas. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36628-36638.	4.0	112
46	Wood-Inspired Compressible, Mesoporous, and Multifunctional Carbon Aerogel by a Dual-Activation Strategy from Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11114-11122.	3.2	31
47	ZnO nanorod arrays assembled on activated carbon fibers for photocatalytic degradation: Characteristics and synergistic effects. <i>Chemosphere</i> , 2020, 261, 127731.	4.2	26
48	Adsorption Separation of Cr(VI) from a Water Phase Using Multiwalled Carbon Nanotube-Immobilized Ionic Liquids. <i>ACS Omega</i> , 2020, 5, 22827-22839.	1.6	19
49	Designing Hybrid Chiral Photonic Films with Circularly Polarized Room-Temperature Phosphorescence. <i>ACS Nano</i> , 2020, 14, 11130-11139.	7.3	130
50	Constructing CeO ₂ /nitrogen-doped carbon quantum dot/g-C ₃ N ₄ heterojunction photocatalysts for highly efficient visible light photocatalysis. <i>Nanoscale</i> , 2020, 12, 19112-19120.	2.8	43
51	Promoting the Growth of Mung Bean Plants through Uptake and Light Conversion of NaYF ₄ :Yb,Er@CDs Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9751-9762.	3.2	40
52	Fluorescent Poly(vinyl alcohol) Films Containing Chlorogenic Acid Carbon Nanodots for Food Monitoring. <i>ACS Applied Nano Materials</i> , 2020, 3, 7611-7620.	2.4	23
53	Self-assembly of single-crystal ZnO nanorod arrays on flexible activated carbon fibers substrates and the superior photocatalytic degradation activity. <i>Applied Surface Science</i> , 2020, 513, 145878.	3.1	30
54	PVA-Coated Fluorescent Carbon Dot Nanocapsules as an Optical Amplifier for Enhanced Photosynthesis of Lettuce. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3938-3949.	3.2	41

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55	Far-Red Carbon Dots as Efficient Light-Harvesting Agents for Enhanced Photosynthesis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21009-21019.	4.0	102
56	Irregular aggregation-induced emission luminogens. <i>Coordination Chemistry Reviews</i> , 2020, 418, 213358.	9.5	44
57	Cellulose Spacer Strategy: Anti-Aggregation-Caused Quenching Membrane for Mercury Ion Detection and Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15182-15189.	3.2	25
58	Organosilane-functionalized carbon quantum dots and their applications to on-off-on fluorometric determination of chromate and ascorbic acid, and in white light-emitting devices. <i>Mikrochimica Acta</i> , 2019, 186, 516.	2.5	18
59	Deep Eutectic Solvent-Assisted In Situ Wood Delignification: A Promising Strategy To Enhance the Efficiency of Wood-Based Solar Steam Generation Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26032-26037.	4.0	97
60	N,S-self-doped carbon quantum dots from fungus fibers for sensing tetracyclines and for bioimaging cancer cells. <i>Materials Science and Engineering C</i> , 2019, 105, 110132.	3.8	132
61	Ultralight carbon aerogel with tubular structures and N-containing sandwich-like wall from kapok fibers for supercapacitor electrode materials. <i>Journal of Power Sources</i> , 2019, 438, 227030.	4.0	50
62	Hydrothermal synthesis of green fluorescent nitrogen doped carbon dots for the detection of nitrite and multicolor cellular imaging. <i>Analytica Chimica Acta</i> , 2019, 1090, 133-142.	2.6	64
63	In Situ Green Synthesis of Nitrogen-Doped Carbon-Dot-Based Room-Temperature Phosphorescent Materials for Visual Iron Ion Detection. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18801-18809.	3.2	52
64	Fabrication, characteristics and applications of carbon materials with different morphologies and porous structures produced from wood liquefaction: A review. <i>Chemical Engineering Journal</i> , 2019, 364, 226-243.	6.6	125
65	Biomass-derived solar-to-thermal materials: promising energy absorbers to convert light to mechanical motion. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4002-4008.	5.2	32
66	Stimuli-responsive cellulose paper materials. <i>Carbohydrate Polymers</i> , 2019, 210, 350-363.	5.1	55
67	Tunable Upconverted Circularly Polarized Luminescence in Cellulose Nanocrystal Based Chiral Photonic Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23512-23519.	4.0	79
68	Polyvinyl Alcohol/Silk Fibroin/Borax Hydrogel Ionotronics: A Highly Stretchable, Self-Healable, and Biocompatible Sensing Platform. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23632-23638.	4.0	154
69	Molecular Glue Strategy: Large-Scale Conversion of Clustering-Induced Emission Luminogen to Carbon Dots. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19301-19307.	4.0	44
70	Production of Nanocellulose Using Hydrated Deep Eutectic Solvent Combined with Ultrasonic Treatment. <i>ACS Omega</i> , 2019, 4, 8539-8547.	1.6	112
71	Alternate Ultrasound/Microwave Digestion for Deep Eutectic Hydro-distillation Extraction of Essential Oil and Polysaccharide from <i>Schisandra chinensis</i> (Turcz.) Baill. <i>Molecules</i> , 2019, 24, 1288.	1.7	18
72	A Universal Strategy for Activating the Multicolor Room-Temperature Afterglow of Carbon Dots in a Boric Acid Matrix. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7278-7283.	7.2	266

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73	Assembling semiconductor quantum dots in hierarchical photonic cellulose nanocrystal films: circularly polarized luminescent nanomaterials as optical coding labels. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13794-13802.	2.7	79
74	Tunable Water Delivery in Carbon-Coated Fabrics for High-Efficiency Solar Vapor Generation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46938-46946.	4.0	36
75	Biomass-derived nitrogen-doped carbon quantum dots: highly selective fluorescent probe for detecting Fe ³⁺ ions and tetracyclines. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 332-341.	5.0	424
76	Hierarchical porous carbon spheres derived from larch sawdust via spray pyrolysis and soft-templating method for supercapacitors. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	12
77	Nanocellulose-Enabled, All-Nanofiber, High-Performance Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5919-5927.	4.0	91
78	Green Extraction of Six Phenolic Compounds from Rattan (<i>Calamoideae faberii</i>) with Deep Eutectic Solvent by Homogenate-Assisted Vacuum-Cavitation Method. <i>Molecules</i> , 2019, 24, 113.	1.7	25
79	Hydrothermal synthesis of nitrogen and boron co-doped carbon quantum dots for application in acetone and dopamine sensors and multicolor cellular imaging. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 34-43.	4.0	119
80	Ultra-small amorphous carbon dots: preparation, photoluminescence properties, and their application as TiO ₂ photosensitizers. <i>Journal of Materials Science</i> , 2019, 54, 5280-5293.	1.7	24
81	Multiple hydrogen bond coordination in three-constituent deep eutectic solvents enhances lignin fractionation from biomass. <i>Green Chemistry</i> , 2018, 20, 2711-2721.	4.6	323
82	Multifunctional chiral nematic cellulose nanocrystals/glycerol structural colored nanocomposites for intelligent responsive films, photonic inks and iridescent coatings. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5391-5400.	2.7	103
83	Preparation of a Smart and Portable Film for in Situ Sensing of Iron Microcorrosion. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4981-4985.	4.0	6
84	Seeking Brightness from Nature: J-Aggregation-Induced Emission in Cellulolytic Enzyme Lignin Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3169-3175.	3.2	80
85	Novel Quercetin Aggregation-Induced Emission Luminogen (AIEgen) with Excited-State Intramolecular Proton Transfer for In Vivo Bioimaging. <i>Advanced Functional Materials</i> , 2018, 28, 1706196.	7.8	100
86	Seeking value from biomass materials: preparation of coffee bean shell-derived fluorescent carbon dots via molecular aggregation for antioxidation and bioimaging applications. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1269-1275.	3.2	62
87	Natural-Product-Derived Carbon Dots: From Natural Products to Functional Materials. <i>ChemSusChem</i> , 2018, 11, 11-24.	3.6	278
88	Enhanced Biological Photosynthetic Efficiency Using Light-Harvesting Engineering with Dual-Emissive Carbon Dots. <i>Advanced Functional Materials</i> , 2018, 28, 1804004.	7.8	189
89	A nanocomposite probe consisting of carbon quantum dots and phosphotungstic acid for fluorometric determination of chromate(VI) with improved selectivity. <i>Mikrochimica Acta</i> , 2018, 185, 470.	2.5	20
90	GC-MS Study of the Chemical Components of Different <i>Aquilaria sinensis</i> (Lour.) Gilgorgans and Agarwood from Different Asian Countries. <i>Molecules</i> , 2018, 23, 2168.	1.7	20

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91	Highly activated porous carbon with 3D microspherical structure and hierarchical pores as greatly enhanced cathode material for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2018, 391, 162-169.	4.0	72
92	Natural Quercetin AlEgen Composite Film with Antibacterial and Antioxidant Properties for in Situ Sensing of Al ³⁺ Residues in Food, Detecting Food Spoilage, and Extending Food Storage Times. <i>ACS Applied Bio Materials</i> , 2018, 1, 636-642.	2.3	39
93	Carbon spheres derived from biomass residue via ultrasonic spray pyrolysis for supercapacitors. <i>Materials Chemistry and Physics</i> , 2018, 219, 461-467.	2.0	20
94	High Performance, Flexible, Solid-state Supercapacitors Based on a Renewable and Biodegradable Mesoporous Cellulose Membrane. <i>Advanced Energy Materials</i> , 2017, 7, 1700739.	10.2	202
95	Preparation of Carbon Dots for Cellular Imaging by the Molecular Aggregation of Cellulolytic Enzyme Lignin. <i>Langmuir</i> , 2017, 33, 5786-5795.	1.6	75
96	Highly Flexible and Conductive Cellulose-Mediated PEDOT:PSS/MWCNT Composite Films for Supercapacitor Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13213-13222.	4.0	214
97	Efficient Cleavage of Lignin-Carbohydrate Complexes and Ultrafast Extraction of Lignin Oligomers from Wood Biomass by Microwave-Assisted Treatment with Deep Eutectic Solvent. <i>ChemSusChem</i> , 2017, 10, 1692-1700.	3.6	354
98	Hydrothermal synthesis of nitrogen-doped carbon quantum dots from microcrystalline cellulose for the detection of Fe ³⁺ ions in an acidic environment. <i>RSC Advances</i> , 2017, 7, 44144-44153.	1.7	177
99	Efficient Cleavage of Strong Hydrogen Bonds in Cotton by Deep Eutectic Solvents and Facile Fabrication of Cellulose Nanocrystals in High Yields. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7623-7631.	3.2	161
100	One-step hydrothermal synthesis of fluorescent nanocrystalline cellulose/carbon dot hydrogels. <i>Carbohydrate Polymers</i> , 2017, 175, 7-17.	5.1	54
101	Characterization of products from hydrothermal carbonization of pine. <i>Bioresource Technology</i> , 2017, 244, 78-83.	4.8	72
102	Carbon nanocasting in ion-track etched polycarbonate membranes. <i>Materials Letters</i> , 2017, 187, 56-59.	1.3	7
103	Facile Control of the Porous Structure of Larch-Derived Mesoporous Carbons via Self-Assembly for Supercapacitors. <i>Materials</i> , 2017, 10, 1330.	1.3	6
104	Mesoporous materials for energy conversion and storage devices. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	1,031
105	Electroless decoration of macroscale foam with nickel nano-spikes: A scalable route toward efficient catalyst electrodes. <i>Electrochemistry Communications</i> , 2016, 65, 39-43.	2.3	26
106	Facile fabrication of hollow and honeycomb-like carbon spheres from liquefied larch sawdust via ultrasonic spray pyrolysis. <i>Materials Letters</i> , 2015, 157, 135-138.	1.3	15
107	Synthesis of nickel-incorporated larch-based carbon membranes with controllable porous structure for gas separation. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	5
108	Hydrothermal carbonization of carboxymethylcellulose: One-pot preparation of conductive carbon microspheres and water-soluble fluorescent carbon nanodots. <i>Chemical Engineering Journal</i> , 2015, 266, 112-120.	6.6	89

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109	Hierarchically tunable porous carbon spheres derived from larch sawdust and application for efficiently removing Cr (â€¦) and Pb (â€¦). <i>Materials Chemistry and Physics</i> , 2015, 155, 52-58.	2.0	18
110	Effect of reaction temperature on properties of carbon nanodots and their visible-light photocatalytic degradation of tetracycline. <i>RSC Advances</i> , 2015, 5, 75711-75721.	1.7	33
111	Pentosan-derived water-soluble carbon nano dots with substantial fluorescence: Properties and application as a photosensitizer. <i>Applied Surface Science</i> , 2014, 315, 66-72.	3.1	31
112	An overview of the synthesis of ordered mesoporous materials. <i>Chemical Communications</i> , 2013, 49, 943-946.	2.2	263
113	Simple and Green Synthesis of Nitrogenâ€Doped Photoluminescent Carbonaceous Nanospheres for Bioimaging. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8151-8155.	7.2	430
114	A porous carbon foam prepared from liquefied birch sawdust. <i>Journal of Materials Science</i> , 2012, 47, 1977-1984.	1.7	34
115	Exploring the circular polarization capacity from chiral cellulose nanocrystal films for photoâ€controlled chiral helix of supramolecular polymers. <i>Angewandte Chemie</i> , 0, , .	1.6	2