Chaofan Hu

List of Publications by Year
in descending order

99 papers	6,416 citations	66343 42 h-index	69250 77 g-index
101 all docs	101 docs citations	101 times ranked	6994 citing authors

#	Article	IF	Citations
1	Energy Transfer Mediated Enhancement of Roomâ€Temperature Phosphorescence of Carbon Dots Embedded in Matrixes. Advanced Optical Materials, 2022, 10, .	7.3	38
2	Carbon Dots with Intrinsic Bioactivities for Photothermal Optical Coherence Tomography, Tumorâ€Specific Therapy and Postoperative Wound Management. Advanced Healthcare Materials, 2022, 11, e2101448.	7.6	29
3	Cascade Resonance Energy Transfer for the Construction of Nanoparticles with Multicolor Long Afterglow in Aqueous Solutions for Information Encryption and Bioimaging. Advanced Optical Materials, 2022, 10, .	7.3	43
4	Modulating the local structure of glass to promote in situ precipitation of perovskite CsPbBr₃ quantum dots by introducing a network modifier. Journal of Materials Chemistry C, 2022, 10, 8634-8641.	5.5	7
5	A rapid construction strategy of NaYF₄:Yb,Er@CDs nanocomposites for dual-mode anti-counterfeiting. Materials Advances, 2022, 3, 4542-4547.	5.4	6
6	The role of fluorescent carbon dots in crops: Mechanism and applications. SmartMat, 2022, 3, 208-225.	10.7	21
7	Different Kinds of Citric Acid Based Carbon Dots and Their Enhancement of the Growth of Italian Lettuce. ACS Agricultural Science and Technology, 2022, 2, 684-692.	2.3	2
8	Carbon Dots in Hydroxy Fluorides: Achieving Multicolor Long-Wavelength Room-Temperature Phosphorescence and Excellent Stability via Crystal Confinement. Nano Letters, 2022, 22, 5127-5136.	9.1	46
9	Controllable Synthesis of Carbon Dots@CaCO₃ Composites: Tunable Morphology, UV Absorption Properties, and Application as an Ultraviolet Absorber. Crystal Growth and Design, 2022, 22, 4357-4365.	3.0	8
10	In Situ Growth of High-Quality CsPbBr₃ Quantum Dots with Unusual Morphology inside a Transparent Glass with a Heterogeneous Crystallization Environment for Wide Gamut Displays. ACS Applied Materials & Interfaces, 2022, 14, 30029-30038.	8.0	17
11	Bi/3DPG composite structure optimization realizes high specific capacity and rapid sodium-ion storage. Frontiers of Materials Science, 2022, 16, .	2.2	1
12	Synthesis of Carbon Dots with Carbogenic Ï€-Conjugated Domains for Full-Band UV Shielding. ACS Applied Nano Materials, 2022, 5, 9140-9149.	5.0	10
13	Carbon dots as light converter for plant photosynthesis: Augmenting light coverage and quantum yield effect. Journal of Hazardous Materials, 2021, 410, 124534.	12.4	69
14	Understanding the modulation effect and surface chemistry in a heteroatom incorporated graphene-like matrix toward high-rate lithiumâ€“sulfur batteries. Nanoscale, 2021, 13, 14777-14784.	5.6	18
15	Red, orange, yellow and green luminescence by carbon dots: hydrogen-bond-induced solvation effects. Nanoscale, 2021, 13, 6846-6855.	5.6	49
16	Threeâ€Dimensional Graphene Network Decorated with Highly Symmetrical Cuboid Na₃V₂(PO₄)₂F₃ Particles: High Rate Capability and Cycling Stability for Sodiumâ€Ion Batteries. ChemElectroChem, 2021, 8, 866-872.	3.4	18
17	Red, green and blue aggregationâ€induced emissive carbon dots. Chinese Chemical Letters, 2021, 32, 3927-3930.	9.0	41
18	Multiemissive Room-Temperature Phosphorescent Carbon Dots@ZnAl₂O₄ Composites by Inorganic Defect Triplet-State Energy Transfer. ACS Applied Materials & Interfaces, 2021, 13, 34705-34713.	8.0	34

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19	Multifunctional FeP/Spongy Carbon Modified Separator with Enhanced Polysulfide Immobilization and Conversion for Flameâ€Retardant Lithiumâ€Sulfur Batteries. ChemistrySelect, 2021, 6, 7098-7102.	1.5	2
20	Nearâ€Infraredâ€Excited Multicolor Afterglow in Carbon Dotsâ€Based Roomâ€Temperature Afterglow Materials. Angewandte Chemie, 2021, 133, 22427-22433.	2.0	8
21	Nearâ€Infraredâ€Excited Multicolor Afterglow in Carbon Dotsâ€Based Roomâ€Temperature Afterglow Materials. Angewandte Chemie - International Edition, 2021, 60, 22253-22259.	13.8	73
22	Magnesium-nitrogen co-doped carbon dots enhance plant growth through multifunctional regulation in photosynthesis. Chemical Engineering Journal, 2021, 422, 130114.	12.7	54
23	Visible-light excitable thermally activated delayed fluorescence in aqueous solution from F, N-doped carbon dots confined in silica nanoparticles. Chemical Engineering Journal, 2021, 426, 130728.	12.7	55
24	Oxidation-induced quenching mechanism of ultrabright red carbon dots and application in antioxidant RCDs/PVA film. Chemical Engineering Journal, 2021, 425, 131653.	12.7	36
25	Hemicellulose-triggered high-yield synthesis of carbon dots from biomass. New Journal of Chemistry, 2021, 45, 5484-5490.	2.8	13
26	Construction of Carbon Dots with Colorâ€Tunable Aggregationâ€Induced Emission by Nitrogenâ€Induced Intramolecular Charge Transfer. Advanced Materials, 2021, 33, e2104872.	21.0	112
27	Hierarchical Ni2P nanosheets anchored on three-dimensional graphene as self-supported anode materials towards long-life sodium-ion batteries. Journal of Alloys and Compounds, 2020, 817, 152751.	5.5	22
28	A review on the effects of carbon dots in plant systems. Materials Chemistry Frontiers, 2020, 4, 437-448.	5.9	139
29	Enhancement of Fluorescence Emission for Tricolor Quantum Dots Assembled in Polysiloxane toward Solar Spectrumâ€Simulated White Lightâ€Emitting Devices. Small, 2020, 16, e1905266.	10.0	16
30	Surface functional carbon dots: chemical engineering applications beyond optical properties. Journal of Materials Chemistry C, 2020, 8, 16282-16294.	5.5	36
31	Red-emissive carbon dots from spinach: Characterization and application in visual detection of time. Journal of Luminescence, 2020, 227, 117534.	3.1	17
32	Anchoring Carbon Nanodots onto Nanosilica for Phosphorescence Enhancement and Delayed Fluorescence Nascence in Solid and Liquid States. Small, 2020, 16, e2005228.	10.0	61
33	pH-Responsive carbon dots with red emission for real-time and visual detection of amines. Journal of Materials Chemistry C, 2020, 8, 11563-11571.	5.5	72
34	Ultralong lifetime and efficient room temperature phosphorescent carbon dots through multi-confinement structure design. Nature Communications, 2020, 11, 5591.	12.8	202
35	Regulating the morphology and luminescence properties of CsPbBr₃ perovskite quantum dots through the rigidity of glass network structure. Journal of Materials Chemistry C, 2020, 8, 17374-17382.	5.5	41
36	Self-formed C-dot-based 2D polysiloxane with high photoluminescence quantum yield and stability. Nanoscale, 2020, 12, 10771-10780.	5.6	6

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37	Facile fabrication of a CD/PVA composite polymer to access light-responsive shape-memory effects. Journal of Materials Chemistry C, 2020, 8, 8935-8941.	5.5	22
38	Insights into the deep-tissue photothermal therapy in near-infrared II region based on tumor-targeted MoO2 nanoaggregates. Science China Materials, 2020, 63, 1085-1098.	6.3	17
39	Promoting the Growth of Mung Bean Plants through Uptake and Light Conversion of NaYF₄:Yb,Er@CDs Nanocomposites. ACS Sustainable Chemistry and Engineering, 2020, 8, 9751-9762.	6.7	40
40	Temperature-responsive conversion of thermally activated delayed fluorescence and room-temperature phosphorescence of carbon dots in silica. Journal of Materials Chemistry C, 2020, 8, 5744-5751.	5.5	86
41	Room temperature long afterglow from boron oxide: A boric acid calcined product. Materials Letters, 2020, 276, 128226.	2.6	11
42	Carbon Dots as a Protective Agent Alleviating Abiotic Stress on Rice (Oryza sativa L.) through Promoting Nutrition Assimilation and the Defense System. ACS Applied Materials & Interfaces, 2020, 12, 33575-33585.	8.0	56
43	Morphologyâ€controlled Synthesis of Molybdenum Oxide with Tunable Plasmon Absorption for Photothermal Therapy of Cancer. ChemNanoMat, 2020, 6, 1407-1416.	2.8	9
44	PVA-Coated Fluorescent Carbon Dot Nanocapsules as an Optical Amplifier for Enhanced Photosynthesis of Lettuce. ACS Sustainable Chemistry and Engineering, 2020, 8, 3938-3949.	6.7	41
45	The room temperature afterglow mechanism in carbon dots: Current state and further guidance perspective. Carbon, 2020, 165, 306-316.	10.3	89
46	Far-Red Carbon Dots as Efficient Light-Harvesting Agents for Enhanced Photosynthesis. ACS Applied Materials & Interfaces, 2020, 12, 21009-21019.	8.0	102
47	Selfâ€Quenchingâ€Resistant Red Emissive Carbon Dots with High Stability for Warm White Lightâ€Emitting Diodes with a High Color Rendering Index. Advanced Optical Materials, 2020, 8, 2000251.	7.3	56
48	Room temperature phosphorescence from Si-doped-CD-based composite materials with long lifetimes and high stability. Optics Express, 2020, 28, 19550.	3.4	9
49	Synthesis of dual-emissive carbon dots with a unique solvatochromism phenomenon. Journal of Colloid and Interface Science, 2019, 555, 607-614.	9.4	66
50	Molybdenum oxide nano-dumplings with excellent stability for photothermal cancer therapy and as a controlled release hydrogel. New Journal of Chemistry, 2019, 43, 14281-14290.	2.8	14
51	Precipitating CsPbBr₃ quantum dots in boro-germanate glass with a dense structure and inert environment toward highly stable and efficient narrow-band green emitters for wide-color-gamut liquid crystal displays. Journal of Materials Chemistry C, 2019, 7, 13139-13148.	5.5	68
52	Improving the luminous efficacy and resistance to blue laser irradiation of phosphor-in-glass based solid state laser lighting through employing dual-functional sapphire plate. Journal of Materials Chemistry C, 2019, 7, 354-361.	5.5	70
53	Synthesis of Silicon Quantum Dots with Highly Efficient Full-Band UV Absorption and Their Applications in Antiyellowing and Resistance of Photodegradation. ACS Applied Materials & Interfaces, 2019, 11, 6634-6643.	8.0	45
54	Fluorine anion doped Na0.44MnO2 with layer-tunnel hybrid structure as advanced cathode for sodium ion batteries. Journal of Power Sources, 2019, 427, 129-137.	7.8	55

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55	Construction of NaYF₄:Yb,Er(Tm)@CDs composites for enhancing red and NIR upconversion emission. Journal of Materials Chemistry C, 2019, 7, 6231-6235.	5.5	32
56	Hydrophobic carbon dots with blue dispersed emission and red aggregation-induced emission. Nature Communications, 2019, 10, 1789.	12.8	419
57	Hydrothermal synthesis of oxygen-deficiency tungsten oxide quantum dots with excellent photochromic reversibility. Applied Surface Science, 2019, 480, 404-409.	6.1	35
58	A Universal Strategy for Activating the Multicolor Roomâ€Temperature Afterglow of Carbon Dots in a Boric Acid Matrix. Angewandte Chemie, 2019, 131, 7356-7361.	2.0	62
59	A Universal Strategy for Activating the Multicolor Roomâ€Temperature Afterglow of Carbon Dots in a Boric Acid Matrix. Angewandte Chemie - International Edition, 2019, 58, 7278-7283.	13.8	266
60	Improving moisture stability of SrLiAl3N4:Eu2+ through phosphor-in-glass approach to realize its application in plant growing LED device. Journal of Colloid and Interface Science, 2019, 545, 195-199.	9.4	24
61	Construction of NaYF4:Eu@carbon dots nanocomposites for multifunctional applications. Journal of Colloid and Interface Science, 2019, 543, 156-163.	9.4	12
62	Carbon Dot-Silica Nanoparticle Composites for Ultralong Lifetime Phosphorescence Imaging in Tissue and Cells at Room Temperature. Chemistry of Materials, 2019, 31, 9887-9894.	6.7	137
63	One-pot solvothermal synthesis of water-soluble boron nitride nanosheets and fluorescent boron nitride quantum dots. Materials Letters, 2019, 234, 306-310.	2.6	38
64	Assembly of shell/core CDs@CaF₂ nanocomposites to endow polymers with multifunctional properties. Nanotechnology, 2019, 30, 155601.	2.6	7
65	Construction of Ni3S2 wrapped by rGO on carbon cloth for flexible supercapacitor application. Journal of Alloys and Compounds, 2019, 777, 806-811.	5.5	48
66	Small nitrogen-doped carbon dots as efficient nanoenhancer for boosting the electrochemical performance of three-dimensional graphene. Journal of Colloid and Interface Science, 2019, 536, 628-637.	9.4	34
67	Ni₂P Nanoflake Array/Three Dimensional Graphene Architecture as Integrated Freeâ€Standing Anode for Boosting the Sodiation Capability and Stability. ChemElectroChem, 2019, 6, 404-412.	3.4	33
68	Synthesis of modified carbon dots with performance of ultraviolet absorption used in sunscreen. Optics Express, 2019, 27, 7629.	3.4	27
69	Phase-controlled synthesis of molybdenum oxide nanoparticles for surface enhanced Raman scattering and photothermal therapy. Nanoscale, 2018, 10, 5997-6004.	5.6	85
70	Construction and multifunctional applications of carbon dots/PVA nanofibers with phosphorescence and thermally activated delayed fluorescence. Chemical Engineering Journal, 2018, 347, 505-513.	12.7	84
71	Largeâ€Scale Oneâ€Step Synthesis of Carbon Dots from Yeast Extract Powder and Construction of Carbon Dots/PVA Fluorescent Shape Memory Material. Advanced Optical Materials, 2018, 6, 1701150.	7.3	76
72	Size-controlled synthesis of fluorescent tungsten oxide quantum dots via one-pot ethanol-thermal strategy for ferric ions detection and bioimaging. Sensors and Actuators B: Chemical, 2018, 255, 290-298.	7.8	28

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73	Rapid room-temperature preparation of MoO_{3â^'x} quantum dots by ultraviolet irradiation for photothermal treatment and glucose detection. New Journal of Chemistry, 2018, 42, 18533-18540.	2.8	33
74	Enhanced Biological Photosynthetic Efficiency Using Lightâ€Harvesting Engineering with Dualâ€Emissive Carbon Dots. Advanced Functional Materials, 2018, 28, 1804004.	14.9	189
75	Bioinspired Highly Crumpled Porous Carbons with Multidirectional Porosity for High Rate Performance Electrochemical Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 12716-12726.	6.7	31
76	Preparation and properties of dual-mode luminescent NaYF₄:Yb,Tm@SiO₂/carbon dot nanocomposites. Journal of Materials Chemistry C, 2018, 6, 10360-10366.	5.5	26
77	Near-Ultraviolet to Near-Infrared Fluorescent Nitrogen-Doped Carbon Dots with Two-Photon and Piezochromic Luminescence. ACS Applied Materials & Interfaces, 2018, 10, 27920-27927.	8.0	63
78	The Influences of a Targeting Peptide on the Ovarian Cancer Cell Motility. International Journal of Peptide Research and Therapeutics, 2017, 23, 25-36.	1.9	1
79	Room temperature phosphorescence from moisture-resistant and oxygen-barred carbon dot aggregates. Journal of Materials Chemistry C, 2017, 5, 6243-6250.	5.5	91
80	A facile and one-pot synthesis of fluorescent graphitic carbon nitride quantum dots for bio-imaging applications. New Journal of Chemistry, 2017, 41, 3930-3938.	2.8	120
81	Three-dimensional graphene combined with hierarchical CuS for the design of flexible solid-state supercapacitors. Electrochimica Acta, 2017, 237, 109-118.	5.2	91
82	Towards efficient dual-emissive carbon dots through sulfur and nitrogen co-doped. Journal of Materials Chemistry C, 2017, 5, 8014-8021.	5.5	73
83	Rapid Synthesis of Carbon Dots by Hydrothermal Treatment of Lignin. Materials, 2016, 9, 184.	2.9	125
84	A facile one-step method to produce MoS₂quantum dots as promising bio-imaging materials. RSC Advances, 2016, 6, 25605-25610.	3.6	54
85	Extraction of graphitic carbon quantum dots by hydrothermal treatment commercially activated carbon: the role of cationâ€“Ï€ interaction. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	7
86	Preparation of Reduced Graphene Oxide and Copper Sulfide Nanoplates Composites as Efficient Photothermal Agents for Ablation of Cancer Cells. Nano, 2015, 10, 1550123.	1.0	11
87	Temperature-Dependent Luminescence Characteristic of SrSi2O2N2:Eu2+ Phosphor and Its Thermal Quenching Behavior. Journal of Materials Science and Technology, 2014, 30, 290-294.	10.7	39
88	pHâ€dependent surfaceâ€enhanced Raman scattering of aromatic molecules on graphene oxide. Journal of Raman Spectroscopy, 2013, 44, 75-80.	2.5	18
89	Fabrication of a graphene oxideâ€“gold nanorod hybrid material by electrostatic self-assembly for surface-enhanced Raman scattering. Carbon, 2013, 51, 255-264.	10.3	90
90	One-step preparation of nitrogen-doped graphenequantum dots from oxidized debris of graphene oxide. Journal of Materials Chemistry B, 2013, 1, 39-42.	5.8	380

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91	Effects of Ni Particle Size on Hydrogen Storage of Ni-Doped High Surface Area Activated Carbon. Australian Journal of Chemistry, 2013, 66, 548.	0.9	2
92	Fabrication of Reduced Graphene Oxide and Sliver Nanoparticle Hybrids for Raman Detection of Absorbed Folic Acid: A Potential Cancer Diagnostic Probe. ACS Applied Materials & Interfaces, 2013, 5, 4760-4768.	8.0	94
93	Thermoluminescence and Temperatureâ€Dependent Afterglow Properties in <scp><scp>BaSi</scp></scp>₂<scp><scp>O</scp></scp>₂<scp><scp>N</scp></scp>₂:<scp Journal of the American Ceramic Society, 2013, 96, 3149-3154.	3.8	11
94	Rapid Intracellular Growth of Gold Nanostructures Assisted by Functionalized Graphene Oxide and Its Application for Surface-Enhanced Raman Spectroscopy. Analytical Chemistry, 2012, 84, 10338-10344.	6.5	53
95	Facile fabrication of carbonaceous nanospheres loaded with silver nanoparticles as antibacterial materials. Journal of Materials Chemistry, 2012, 22, 8121.	6.7	71
96	One-step synthesis of amino-functionalized fluorescent carbon nanoparticles by hydrothermal carbonization of chitosan. Chemical Communications, 2012, 48, 380-382.	4.1	862
97	On-Line Concentration Methods for Analysis of Fat-Soluble Vitamins by MEKC. Chromatographia, 2010, 72, 95-100.	1.3	17
98	Development of magnetic octadecylsilane particles as solidâ€phase extraction adsorbent for the determination of fatâ€soluble vitamins in fruit juiceâ€milk beverage by capillary liquid chromatography. Journal of Separation Science, 2010, 33, 2145-2152.	2.5	21
99	Preparation of multi-walled carbon nanotubes functionalized magnetic particles by solâ€“gel technology and its application in extraction of estrogens. Talanta, 2010, 83, 337-343.	5.5	84