Chaofan Hu

List of Publications by Year
in descending order

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99 papers	6,416 citations	66234 42 h-index	69108 77 g-index
101 all docs	101 docs citations	101 times ranked	6994 citing authors

#	Article	IF	Citations
1	One-step synthesis of amino-functionalized fluorescent carbon nanoparticles by hydrothermal carbonization of chitosan. Chemical Communications, 2012, 48, 380-382.	2.2	862
2	Hydrophobic carbon dots with blue dispersed emission and red aggregation-induced emission. Nature Communications, 2019, 10, 1789.	5.8	419
3	One-step preparation of nitrogen-doped graphenequantum dots from oxidized debris of graphene oxide. Journal of Materials Chemistry B, 2013, 1, 39-42.	2.9	380
4	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.	7.2	266
5	Ultralong lifetime and efficient room temperature phosphorescent carbon dots through multi-confinement structure design. Nature Communications, 2020, 11, 5591.	5.8	202
6	Enhanced Biological Photosynthetic Efficiency Using Lightâ€Harvesting Engineering with Dualâ€Emissive Carbon Dots. Advanced Functional Materials, 2018, 28, 1804004.	7.8	189
7	A review on the effects of carbon dots in plant systems. Materials Chemistry Frontiers, 2020, 4, 437-448.	3.2	139
8	Carbon Dot-Silica Nanoparticle Composites for Ultralong Lifetime Phosphorescence Imaging in Tissue and Cells at Room Temperature. Chemistry of Materials, 2019, 31, 9887-9894.	3.2	137
9	Rapid Synthesis of Carbon Dots by Hydrothermal Treatment of Lignin. Materials, 2016, 9, 184.	1.3	125
10	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.	1.4	120
11	Construction of Carbon Dots with Colorâ€Tunable Aggregationâ€Induced Emission by Nitrogenâ€Induced Intramolecular Charge Transfer. Advanced Materials, 2021, 33, e2104872.	11.1	112
12	Far-Red Carbon Dots as Efficient Light-Harvesting Agents for Enhanced Photosynthesis. ACS Applied Materials & Interfaces, 2020, 12, 21009-21019.	4.0	102
13	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.	4.0	94
14	Room temperature phosphorescence from moisture-resistant and oxygen-barred carbon dot aggregates. Journal of Materials Chemistry C, 2017, 5, 6243-6250.	2.7	91
15	Three-dimensional graphene combined with hierarchical CuS for the design of flexible solid-state supercapacitors. Electrochimica Acta, 2017, 237, 109-118.	2.6	91
16	Fabrication of a graphene oxideâ€“gold nanorod hybrid material by electrostatic self-assembly for surface-enhanced Raman scattering. Carbon, 2013, 51, 255-264.	5.4	90
17	The room temperature afterglow mechanism in carbon dots: Current state and further guidance perspective. Carbon, 2020, 165, 306-316.	5.4	89
18	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.	2.7	86

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19	Phase-controlled synthesis of molybdenum oxide nanoparticles for surface enhanced Raman scattering and photothermal therapy. Nanoscale, 2018, 10, 5997-6004.	2.8	85
20	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.	2.9	84
21	Construction and multifunctional applications of carbon dots/PVA nanofibers with phosphorescence and thermally activated delayed fluorescence. Chemical Engineering Journal, 2018, 347, 505-513.	6.6	84
22	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.	3.6	76
23	Towards efficient dual-emissive carbon dots through sulfur and nitrogen co-doped. Journal of Materials Chemistry C, 2017, 5, 8014-8021.	2.7	73
24	Nearâ€Infraredâ€Excited Multicolor Afterglow in Carbon Dotsâ€Based Roomâ€Temperature Afterglow Materials. Angewandte Chemie - International Edition, 2021, 60, 22253-22259.	7.2	73
25	pH-Responsive carbon dots with red emission for real-time and visual detection of amines. Journal of Materials Chemistry C, 2020, 8, 11563-11571.	2.7	72
26	Facile fabrication of carbonaceous nanospheres loaded with silver nanoparticles as antibacterial materials. Journal of Materials Chemistry, 2012, 22, 8121.	6.7	71
27	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.	2.7	70
28	Carbon dots as light converter for plant photosynthesis: Augmenting light coverage and quantum yield effect. Journal of Hazardous Materials, 2021, 410, 124534.	6.5	69
29	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.	2.7	68
30	Synthesis of dual-emissive carbon dots with a unique solvatochromism phenomenon. Journal of Colloid and Interface Science, 2019, 555, 607-614.	5.0	66
31	Near-Ultraviolet to Near-Infrared Fluorescent Nitrogen-Doped Carbon Dots with Two-Photon and Piezochromic Luminescence. ACS Applied Materials & Interfaces, 2018, 10, 27920-27927.	4.0	63
32	A Universal Strategy for Activating the Multicolor Roomâ€Temperature Afterglow of Carbon Dots in a Boric Acid Matrix. Angewandte Chemie, 2019, 131, 7356-7361.	1.6	62
33	Anchoring Carbon Nanodots onto Nanosilica for Phosphorescence Enhancement and Delayed Fluorescence Nascence in Solid and Liquid States. Small, 2020, 16, e2005228.	5.2	61
34	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.	4.0	56
35	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.	3.6	56
36	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.	4.0	55

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37	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.	6.6	55
38	A facile one-step method to produce MoS₂quantum dots as promising bio-imaging materials. RSC Advances, 2016, 6, 25605-25610.	1.7	54
39	Magnesium-nitrogen co-doped carbon dots enhance plant growth through multifunctional regulation in photosynthesis. Chemical Engineering Journal, 2021, 422, 130114.	6.6	54
40	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.	3.2	53
41	Red, orange, yellow and green luminescence by carbon dots: hydrogen-bond-induced solvation effects. Nanoscale, 2021, 13, 6846-6855.	2.8	49
42	Construction of Ni3S2 wrapped by rGO on carbon cloth for flexible supercapacitor application. Journal of Alloys and Compounds, 2019, 777, 806-811.	2.8	48
43	Carbon Dots in Hydroxy Fluorides: Achieving Multicolor Long-Wavelength Room-Temperature Phosphorescence and Excellent Stability via Crystal Confinement. Nano Letters, 2022, 22, 5127-5136.	4.5	46
44	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.	4.0	45
45	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, .	3.6	43
46	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><scp>Eu</scp></scp>²⁺. Journal of the American Ceramic Society, 2013, 96, 3149-3154.	3.9	41
47	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.	2.7	41
48	PVA-Coated Fluorescent Carbon Dot Nanocapsules as an Optical Amplifier for Enhanced Photosynthesis of Lettuce. ACS Sustainable Chemistry and Engineering, 2020, 8, 3938-3949.	3.2	41
49	Red, green and blue aggregationâ€induced emissive carbon dots. Chinese Chemical Letters, 2021, 32, 3927-3930.	4.8	41
50	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.	3.2	40
51	Temperature-Dependent Luminescence Characteristic of SrSi2O2N2:Eu2+ Phosphor and Its Thermal Quenching Behavior. Journal of Materials Science and Technology, 2014, 30, 290-294.	5.6	39
52	One-pot solvothermal synthesis of water-soluble boron nitride nanosheets and fluorescent boron nitride quantum dots. Materials Letters, 2019, 234, 306-310.	1.3	38
53	Energy Transfer Mediated Enhancement of Roomâ€Temperature Phosphorescence of Carbon Dots Embedded in Matrixes. Advanced Optical Materials, 2022, 10, .	3.6	38
54	Surface functional carbon dots: chemical engineering applications beyond optical properties. Journal of Materials Chemistry C, 2020, 8, 16282-16294.	2.7	36

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55	Oxidation-induced quenching mechanism of ultrabright red carbon dots and application in antioxidant RCDs/PVA film. Chemical Engineering Journal, 2021, 425, 131653.	6.6	36
56	Hydrothermal synthesis of oxygen-deficiency tungsten oxide quantum dots with excellent photochromic reversibility. Applied Surface Science, 2019, 480, 404-409.	3.1	35
57	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.	5.0	34
58	Multiemissive Room-Temperature Phosphorescent Carbon Dots@ZnAl₂O₄ Composites by Inorganic Defect Triplet-State Energy Transfer. ACS Applied Materials & Interfaces, 2021, 13, 34705-34713.	4.0	34
59	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.	1.4	33
60	Ni₂P Nanoflake Array/Three Dimensional Graphene Architecture as Integrated Freeâ€Standing Anode for Boosting the Sodiation Capability and Stability. ChemElectroChem, 2019, 6, 404-412.	1.7	33
61	Construction of NaYF₄:Yb,Er(Tm)@CDs composites for enhancing red and NIR upconversion emission. Journal of Materials Chemistry C, 2019, 7, 6231-6235.	2.7	32
62	Bioinspired Highly Crumpled Porous Carbons with Multidirectional Porosity for High Rate Performance Electrochemical Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 12716-12726.	3.2	31
63	Carbon Dots with Intrinsic Bioactivities for Photothermal Optical Coherence Tomography, Tumorâ€Specific Therapy and Postoperative Wound Management. Advanced Healthcare Materials, 2022, 11, e2101448.	3.9	29
64	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.	4.0	28
65	Synthesis of modified carbon dots with performance of ultraviolet absorption used in sunscreen. Optics Express, 2019, 27, 7629.	1.7	27
66	Preparation and properties of dual-mode luminescent NaYF₄:Yb,Tm@SiO₂/carbon dot nanocomposites. Journal of Materials Chemistry C, 2018, 6, 10360-10366.	2.7	26
67	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.	5.0	24
68	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.	2.8	22
69	Facile fabrication of a CD/PVA composite polymer to access light-responsive shape-memory effects. Journal of Materials Chemistry C, 2020, 8, 8935-8941.	2.7	22
70	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.	1.3	21
71	The role of fluorescent carbon dots in crops: Mechanism and applications. SmartMat, 2022, 3, 208-225.	6.4	21
72	pHâ€dependent surfaceâ€enhanced Raman scattering of aromatic molecules on graphene oxide. Journal of Raman Spectroscopy, 2013, 44, 75-80.	1.2	18

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73	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.	2.8	18
74	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.	1.7	18
75	On-Line Concentration Methods for Analysis of Fat-Soluble Vitamins by MEKC. Chromatographia, 2010, 72, 95-100.	0.7	17
76	Red-emissive carbon dots from spinach: Characterization and application in visual detection of time. Journal of Luminescence, 2020, 227, 117534.	1.5	17
77	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.	3.5	17
78	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.	4.0	17
79	Enhancement of Fluorescence Emission for Tricolor Quantum Dots Assembled in Polysiloxane toward Solar Spectrumâ€Simulated White Lightâ€Emitting Devices. Small, 2020, 16, e1905266.	5.2	16
80	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.	1.4	14
81	Hemicellulose-triggered high-yield synthesis of carbon dots from biomass. New Journal of Chemistry, 2021, 45, 5484-5490.	1.4	13
82	Construction of NaYF4:Eu@carbon dots nanocomposites for multifunctional applications. Journal of Colloid and Interface Science, 2019, 543, 156-163.	5.0	12
83	Preparation of Reduced Graphene Oxide and Copper Sulfide Nanoplates Composites as Efficient Photothermal Agents for Ablation of Cancer Cells. Nano, 2015, 10, 1550123.	0.5	11
84	Room temperature long afterglow from boron oxide: A boric acid calcined product. Materials Letters, 2020, 276, 128226.	1.3	11
85	Synthesis of Carbon Dots with Carbogenic Ï€-Conjugated Domains for Full-Band UV Shielding. ACS Applied Nano Materials, 2022, 5, 9140-9149.	2.4	10
86	Morphologyâ€controlled Synthesis of Molybdenum Oxide with Tunable Plasmon Absorption for Photothermal Therapy of Cancer. ChemNanoMat, 2020, 6, 1407-1416.	1.5	9
87	Room temperature phosphorescence from Si-doped-CD-based composite materials with long lifetimes and high stability. Optics Express, 2020, 28, 19550.	1.7	9
88	Nearâ€Infraredâ€Excited Multicolor Afterglow in Carbon Dotsâ€Based Roomâ€Temperature Afterglow Materials. Angewandte Chemie, 2021, 133, 22427-22433.	1.6	8
89	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.	1.4	8
90	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.	0.8	7

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91	Assembly of shell/core CDs@CaF₂ nanocomposites to endow polymers with multifunctional properties. Nanotechnology, 2019, 30, 155601.	1.3	7
92	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.	2.7	7
93	Self-formed C-dot-based 2D polysiloxane with high photoluminescence quantum yield and stability. Nanoscale, 2020, 12, 10771-10780.	2.8	6
94	A rapid construction strategy of NaYF₄:Yb,Er@CDs nanocomposites for dual-mode anti-counterfeiting. Materials Advances, 2022, 3, 4542-4547.	2.6	6
95	Effects of Ni Particle Size on Hydrogen Storage of Ni-Doped High Surface Area Activated Carbon. Australian Journal of Chemistry, 2013, 66, 548.	0.5	2
96	Multifunctional FeP/Spongy Carbon Modified Separator with Enhanced Polysulfide Immobilization and Conversion for Flameâ€Retardant Lithiumâ€Sulfur Batteries. ChemistrySelect, 2021, 6, 7098-7102.	0.7	2
97	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.	1.0	2
98	The Influences of a Targeting Peptide on the Ovarian Cancer Cell Motility. International Journal of Peptide Research and Therapeutics, 2017, 23, 25-36.	0.9	1
99	Bi/3DPG composite structure optimization realizes high specific capacity and rapid sodium-ion storage. Frontiers of Materials Science, 2022, 16, .	1.1	1