

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	Energy Transfer Mediated Enhancement of Room-Temperature Phosphorescence of Carbon Dots Embedded in Matrixes. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	38
2	Carbon Dots with Intrinsic Bioactivities for Photothermal Optical Coherence Tomography, Tumor-Specific Therapy and Postoperative Wound Management. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101448.	3.9	29
3	Cascade Resonance Energy Transfer for the Construction of Nanoparticles with Multicolor Long Afterglow in Aqueous Solutions for Information Encryption and Bioimaging. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	43
4	Modulating the local structure of glass to promote <i>in situ</i> precipitation of perovskite CsPbBr ₃ quantum dots by introducing a network modifier. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8634-8641.	2.7	7
5	A rapid construction strategy of NaYF ₄ :Yb,Er@CDs nanocomposites for dual-mode anti-counterfeiting. <i>Materials Advances</i> , 2022, 3, 4542-4547.	2.6	6
6	The role of fluorescent carbon dots in crops: Mechanism and applications. <i>SmartMat</i> , 2022, 3, 208-225.	6.4	21
7	Different Kinds of Citric Acid Based Carbon Dots and Their Enhancement of the Growth of Italian Lettuce. <i>ACS Agricultural Science and Technology</i> , 2022, 2, 684-692.	1.0	2
8	Carbon Dots in Hydroxy Fluorides: Achieving Multicolor Long-Wavelength Room-Temperature Phosphorescence and Excellent Stability via Crystal Confinement. <i>Nano Letters</i> , 2022, 22, 5127-5136.	4.5	46
9	Controllable Synthesis of Carbon Dots@CaCO ₃ Composites: Tunable Morphology, UV Absorption Properties, and Application as an Ultraviolet Absorber. <i>Crystal Growth and Design</i> , 2022, 22, 4357-4365.	1.4	8
10	In Situ Growth of High-Quality CsPbBr ₃ Quantum Dots with Unusual Morphology inside a Transparent Glass with a Heterogeneous Crystallization Environment for Wide Gamut Displays. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30029-30038.	4.0	17
11	Bi/3DPG composite structure optimization realizes high specific capacity and rapid sodium-ion storage. <i>Frontiers of Materials Science</i> , 2022, 16, .	1.1	1
12	Synthesis of Carbon Dots with Carbogenic ĩ-Conjugated Domains for Full-Band UV Shielding. <i>ACS Applied Nano Materials</i> , 2022, 5, 9140-9149.	2.4	10
13	Carbon dots as light converter for plant photosynthesis: Augmenting light coverage and quantum yield effect. <i>Journal of Hazardous Materials</i> , 2021, 410, 124534.	6.5	69
14	Understanding the modulation effect and surface chemistry in a heteroatom incorporated graphene-like matrix toward high-rate lithium-sulfur batteries. <i>Nanoscale</i> , 2021, 13, 14777-14784.	2.8	18
15	Red, orange, yellow and green luminescence by carbon dots: hydrogen-bond-induced solvation effects. <i>Nanoscale</i> , 2021, 13, 6846-6855.	2.8	49
16	Three-Dimensional Graphene Network Decorated with Highly Symmetrical Cuboid Na ₃ V ₂ (PO ₄) ₂ F ₃ Particles: High Rate Capability and Cycling Stability for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2021, 8, 866-872.	1.7	18
17	Red, green and blue aggregation-induced emissive carbon dots. <i>Chinese Chemical Letters</i> , 2021, 32, 3927-3930.	4.8	41
18	Multiemissive Room-Temperature Phosphorescent Carbon Dots@ZnAl ₂ O ₄ Composites by Inorganic Defect Triplet-State Energy Transfer. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34705-34713.	4.0	34

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19	Multifunctional FeP/Spongy Carbon Modified Separator with Enhanced Polysulfide Immobilization and Conversion for Flame-Retardant Lithium-Sulfur Batteries. <i>ChemistrySelect</i> , 2021, 6, 7098-7102.	0.7	2
20	Near-Infrared-Excited Multicolor Afterglow in Carbon Dots-Based Room-Temperature Afterglow Materials. <i>Angewandte Chemie</i> , 2021, 133, 22427-22433.	1.6	8
21	Near-Infrared-Excited Multicolor Afterglow in Carbon Dots-Based Room-Temperature Afterglow Materials. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22253-22259.	7.2	73
22	Magnesium-nitrogen co-doped carbon dots enhance plant growth through multifunctional regulation in photosynthesis. <i>Chemical Engineering Journal</i> , 2021, 422, 130114.	6.6	54
23	Visible-light excitable thermally activated delayed fluorescence in aqueous solution from F, N-doped carbon dots confined in silica nanoparticles. <i>Chemical Engineering Journal</i> , 2021, 426, 130728.	6.6	55
24	Oxidation-induced quenching mechanism of ultrabright red carbon dots and application in antioxidant RCDs/PVA film. <i>Chemical Engineering Journal</i> , 2021, 425, 131653.	6.6	36
25	Hemicellulose-triggered high-yield synthesis of carbon dots from biomass. <i>New Journal of Chemistry</i> , 2021, 45, 5484-5490.	1.4	13
26	Construction of Carbon Dots with Color-Tunable Aggregation-Induced Emission by Nitrogen-Induced Intramolecular Charge Transfer. <i>Advanced Materials</i> , 2021, 33, e2104872.	11.1	112
27	Hierarchical Ni ₂ P nanosheets anchored on three-dimensional graphene as self-supported anode materials towards long-life sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152751.	2.8	22
28	A review on the effects of carbon dots in plant systems. <i>Materials Chemistry Frontiers</i> , 2020, 4, 437-448.	3.2	139
29	Enhancement of Fluorescence Emission for Tricolor Quantum Dots Assembled in Polysiloxane toward Solar Spectrum-Simulated White Light-Emitting Devices. <i>Small</i> , 2020, 16, e1905266.	5.2	16
30	Surface functional carbon dots: chemical engineering applications beyond optical properties. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16282-16294.	2.7	36
31	Red-emissive carbon dots from spinach: Characterization and application in visual detection of time. <i>Journal of Luminescence</i> , 2020, 227, 117534.	1.5	17
32	Anchoring Carbon Nanodots onto Nanosilica for Phosphorescence Enhancement and Delayed Fluorescence Nascence in Solid and Liquid States. <i>Small</i> , 2020, 16, e2005228.	5.2	61
33	pH-Responsive carbon dots with red emission for real-time and visual detection of amines. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11563-11571.	2.7	72
34	Ultralong lifetime and efficient room temperature phosphorescent carbon dots through multi-confinement structure design. <i>Nature Communications</i> , 2020, 11, 5591.	5.8	202
35	Regulating the morphology and luminescence properties of CsPbBr ₃ perovskite quantum dots through the rigidity of glass network structure. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17374-17382.	2.7	41
36	Self-formed C-dot-based 2D polysiloxane with high photoluminescence quantum yield and stability. <i>Nanoscale</i> , 2020, 12, 10771-10780.	2.8	6

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37	Facile fabrication of a CD/PVA composite polymer to access light-responsive shape-memory effects. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8935-8941.	2.7	22
38	Insights into the deep-tissue photothermal therapy in near-infrared II region based on tumor-targeted MoO ₂ nanoaggregates. <i>Science China Materials</i> , 2020, 63, 1085-1098.	3.5	17
39	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
40	Temperature-responsive conversion of thermally activated delayed fluorescence and room-temperature phosphorescence of carbon dots in silica. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5744-5751.	2.7	86
41	Room temperature long afterglow from boron oxide: A boric acid calcined product. <i>Materials Letters</i> , 2020, 276, 128226.	1.3	11
42	Carbon Dots as a Protective Agent Alleviating Abiotic Stress on Rice (<i>Oryza sativa</i> L.) through Promoting Nutrition Assimilation and the Defense System. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33575-33585.	4.0	56
43	Morphology-controlled Synthesis of Molybdenum Oxide with Tunable Plasmon Absorption for Photothermal Therapy of Cancer. <i>ChemNanoMat</i> , 2020, 6, 1407-1416.	1.5	9
44	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
45	The room temperature afterglow mechanism in carbon dots: Current state and further guidance perspective. <i>Carbon</i> , 2020, 165, 306-316.	5.4	89
46	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
47	Self-Quenching-Resistant Red Emissive Carbon Dots with High Stability for Warm White Light-Emitting Diodes with a High Color Rendering Index. <i>Advanced Optical Materials</i> , 2020, 8, 2000251.	3.6	56
48	Room temperature phosphorescence from Si-doped-CD-based composite materials with long lifetimes and high stability. <i>Optics Express</i> , 2020, 28, 19550.	1.7	9
49	Synthesis of dual-emissive carbon dots with a unique solvatochromism phenomenon. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 607-614.	5.0	66
50	Molybdenum oxide nano-dumplings with excellent stability for photothermal cancer therapy and as a controlled release hydrogel. <i>New Journal of Chemistry</i> , 2019, 43, 14281-14290.	1.4	14
51	Precipitating CsPbBr ₃ 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. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13139-13148.	2.7	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. <i>Journal of Materials Chemistry C</i> , 2019, 7, 354-361.	2.7	70
53	Synthesis of Silicon Quantum Dots with Highly Efficient Full-Band UV Absorption and Their Applications in Antiyellowing and Resistance of Photodegradation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6634-6643.	4.0	45
54	Fluorine anion doped Na _{0.44} MnO ₂ with layer-tunnel hybrid structure as advanced cathode for sodium ion batteries. <i>Journal of Power Sources</i> , 2019, 427, 129-137.	4.0	55

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55	Construction of NaYF ₄ :Yb,Er(Tm)@CDs composites for enhancing red and NIR upconversion emission. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6231-6235.	2.7	32
56	Hydrophobic carbon dots with blue dispersed emission and red aggregation-induced emission. <i>Nature Communications</i> , 2019, 10, 1789.	5.8	419
57	Hydrothermal synthesis of oxygen-deficiency tungsten oxide quantum dots with excellent photochromic reversibility. <i>Applied Surface Science</i> , 2019, 480, 404-409.	3.1	35
58	A Universal Strategy for Activating the Multicolor Room-Temperature Afterglow of Carbon Dots in a Boric Acid Matrix. <i>Angewandte Chemie</i> , 2019, 131, 7356-7361.	1.6	62
59	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
60	Improving moisture stability of SrLiAl ₃ N ₄ :Eu ²⁺ through phosphor-in-glass approach to realize its application in plant growing LED device. <i>Journal of Colloid and Interface Science</i> , 2019, 545, 195-199.	5.0	24
61	Construction of NaYF ₄ :Eu@carbon dots nanocomposites for multifunctional applications. <i>Journal of Colloid and Interface Science</i> , 2019, 543, 156-163.	5.0	12
62	Carbon Dot-Silica Nanoparticle Composites for Ultralong Lifetime Phosphorescence Imaging in Tissue and Cells at Room Temperature. <i>Chemistry of Materials</i> , 2019, 31, 9887-9894.	3.2	137
63	One-pot solvothermal synthesis of water-soluble boron nitride nanosheets and fluorescent boron nitride quantum dots. <i>Materials Letters</i> , 2019, 234, 306-310.	1.3	38
64	Assembly of shell/core CDs@CaF ₂ nanocomposites to endow polymers with multifunctional properties. <i>Nanotechnology</i> , 2019, 30, 155601.	1.3	7
65	Construction of Ni ₃ S ₂ wrapped by rGO on carbon cloth for flexible supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2019, 777, 806-811.	2.8	48
66	Small nitrogen-doped carbon dots as efficient nanoenhancer for boosting the electrochemical performance of three-dimensional graphene. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 628-637.	5.0	34
67	Ni ₂ P Nanoflake Array/Three Dimensional Graphene Architecture as Integrated Free-Standing Anode for Boosting the Sodiation Capability and Stability. <i>ChemElectroChem</i> , 2019, 6, 404-412.	1.7	33
68	Synthesis of modified carbon dots with performance of ultraviolet absorption used in sunscreen. <i>Optics Express</i> , 2019, 27, 7629.	1.7	27
69	Phase-controlled synthesis of molybdenum oxide nanoparticles for surface enhanced Raman scattering and photothermal therapy. <i>Nanoscale</i> , 2018, 10, 5997-6004.	2.8	85
70	Construction and multifunctional applications of carbon dots/PVA nanofibers with phosphorescence and thermally activated delayed fluorescence. <i>Chemical Engineering Journal</i> , 2018, 347, 505-513.	6.6	84
71	Large-Scale One-Step Synthesis of Carbon Dots from Yeast Extract Powder and Construction of Carbon Dots/PVA Fluorescent Shape Memory Material. <i>Advanced Optical Materials</i> , 2018, 6, 1701150.	3.6	76
72	Size-controlled synthesis of fluorescent tungsten oxide quantum dots via one-pot ethanol-thermal strategy for ferric ions detection and bioimaging. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 290-298.	4.0	28

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73	Rapid room-temperature preparation of MoO ₃ x quantum dots by ultraviolet irradiation for photothermal treatment and glucose detection. <i>New Journal of Chemistry</i> , 2018, 42, 18533-18540.	1.4	33
74	Enhanced Biological Photosynthetic Efficiency Using Light Harvesting Engineering with Dual-Emissive Carbon Dots. <i>Advanced Functional Materials</i> , 2018, 28, 1804004.	7.8	189
75	Bioinspired Highly Crumpled Porous Carbons with Multidirectional Porosity for High Rate Performance Electrochemical Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12716-12726.	3.2	31
76	Preparation and properties of dual-mode luminescent NaYF ₄ :Yb,Tm@SiO ₂ /carbon dot nanocomposites. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10360-10366.	2.7	26
77	Near-Ultraviolet to Near-Infrared Fluorescent Nitrogen-Doped Carbon Dots with Two-Photon and Piezochromic Luminescence. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27920-27927.	4.0	63
78	The Influences of a Targeting Peptide on the Ovarian Cancer Cell Motility. <i>International Journal of Peptide Research and Therapeutics</i> , 2017, 23, 25-36.	0.9	1
79	Room temperature phosphorescence from moisture-resistant and oxygen-barred carbon dot aggregates. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6243-6250.	2.7	91
80	A facile and one-pot synthesis of fluorescent graphitic carbon nitride quantum dots for bio-imaging applications. <i>New Journal of Chemistry</i> , 2017, 41, 3930-3938.	1.4	120
81	Three-dimensional graphene combined with hierarchical CuS for the design of flexible solid-state supercapacitors. <i>Electrochimica Acta</i> , 2017, 237, 109-118.	2.6	91
82	Towards efficient dual-emissive carbon dots through sulfur and nitrogen co-doped. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8014-8021.	2.7	73
83	Rapid Synthesis of Carbon Dots by Hydrothermal Treatment of Lignin. <i>Materials</i> , 2016, 9, 184.	1.3	125
84	A facile one-step method to produce MoS ₂ quantum dots as promising bio-imaging materials. <i>RSC Advances</i> , 2016, 6, 25605-25610.	1.7	54
85	Extraction of graphitic carbon quantum dots by hydrothermal treatment commercially activated carbon: the role of cation-π interaction. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	7
86	Preparation of Reduced Graphene Oxide and Copper Sulfide Nanoplates Composites as Efficient Photothermal Agents for Ablation of Cancer Cells. <i>Nano</i> , 2015, 10, 1550123.	0.5	11
87	Temperature-Dependent Luminescence Characteristic of SrSi ₂ O ₂ N ₂ :Eu ²⁺ Phosphor and Its Thermal Quenching Behavior. <i>Journal of Materials Science and Technology</i> , 2014, 30, 290-294.	5.6	39
88	pH-dependent surface-enhanced Raman scattering of aromatic molecules on graphene oxide. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 75-80.	1.2	18
89	Fabrication of a graphene oxide-gold nanorod hybrid material by electrostatic self-assembly for surface-enhanced Raman scattering. <i>Carbon</i> , 2013, 51, 255-264.	5.4	90
90	One-step preparation of nitrogen-doped graphene quantum dots from oxidized debris of graphene oxide. <i>Journal of Materials Chemistry B</i> , 2013, 1, 39-42.	2.9	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.	0.5	2
92	Fabrication of Reduced Graphene Oxide and Silver 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
93	Thermoluminescence and Temperature-Dependent Afterglow Properties in BaSiO_2N_2 : Sc^{3+} Journal of the American Ceramic Society, 2013, 96, 3149-3154.	1.9	1
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.	3.2	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.	2.2	862
97	On-Line Concentration Methods for Analysis of Fat-Soluble Vitamins by MEKC. Chromatographia, 2010, 72, 95-100.	0.7	17
98	Development of magnetic octadecylsilane particles as solid-phase extraction adsorbent for the determination of fat-soluble vitamins in fruit juice-milk beverage by capillary liquid chromatography. Journal of Separation Science, 2010, 33, 2145-2152.	1.3	21
99	Preparation of multi-walled carbon nanotubes functionalized magnetic particles by sol-gel technology and its application in extraction of estrogens. Talanta, 2010, 83, 337-343.	2.9	84