

Boyang Wang

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,113
citations

257450

24
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

1629
citing authors

#	ARTICLE	IF	CITATIONS
1	The light of carbon dots: From mechanism to applications. <i>Matter</i> , 2022, 5, 110-149.	10.0	374
2	Biomass-Derived Carbon Dots and Their Applications. <i>Energy and Environmental Materials</i> , 2019, 2, 172-192.	12.8	295
3	Insights into photoluminescence mechanisms of carbon dots: advances and perspectives. <i>Science Bulletin</i> , 2021, 66, 839-856.	9.0	288
4	Near-infrared emissive carbon dots with 33.96% emission in aqueous solution for cellular sensing and light-emitting diodes. <i>Science Bulletin</i> , 2019, 64, 1285-1292.	9.0	240
5	Rational Design of Multi-Color-Emissive Carbon Dots in a Single Reaction System by Hydrothermal. <i>Advanced Science</i> , 2021, 8, 2001453.	11.2	194
6	Kilogram-scale synthesis of carbon quantum dots for hydrogen evolution, sensing and bioimaging. <i>Chinese Chemical Letters</i> , 2019, 30, 2323-2327.	9.0	172
7	Carbon dots as a new class of nanomedicines: Opportunities and challenges. <i>Coordination Chemistry Reviews</i> , 2021, 442, 214010.	18.8	158
8	High production-yield solid-state carbon dots with tunable photoluminescence for white/multi-color light-emitting diodes. <i>Science Bulletin</i> , 2019, 64, 1788-1794.	9.0	147
9	Carbon Dots in Bioimaging, Biosensing and Therapeutics: A Comprehensive Review. <i>Small Science</i> , 2022, 2, .	9.9	117
10	Red-emitting, self-oxidizing carbon dots for the preparation of white LEDs with super-high color rendering index. <i>Science China Chemistry</i> , 2021, 64, 1547-1553.	8.2	103
11	Electron-phonon coupling-assisted universal red luminescence of o-phenylenediamine-based carbon dots. <i>Light: Science and Applications</i> , 2022, 11, .	16.6	102
12	Carbon quantum dots enhanced the activity for the hydrogen evolution reaction in ruthenium-based electrocatalysts. <i>Materials Chemistry Frontiers</i> , 2020, 4, 277-284.	5.9	95
13	Ethanol-derived white emissive carbon dots: the formation process investigation and multi-color/white LEDs preparation. <i>Nano Research</i> , 2022, 15, 942-949.	10.4	91
14	Pressure-triggered aggregation-induced emission enhancement in red emissive amorphous carbon dots. <i>Nanoscale Horizons</i> , 2019, 4, 1227-1231.	8.0	85
15	Carbon Dots as New Building Blocks for Electrochemical Energy Storage and Electrocatalysis. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	81
16	Interface electron collaborative migration of Co-Co ₃ O ₄ /carbon dots: Boosting the hydrolytic dehydrogenation of ammonia borane. <i>Journal of Energy Chemistry</i> , 2020, 48, 43-53.	12.9	79
17	Advances, opportunities, and challenge for full-color emissive carbon dots. <i>Chinese Chemical Letters</i> , 2022, 33, 613-625.	9.0	75
18	Carbon dots-confined CoP-CoO nanoheterostructure with strong interfacial synergy triggered the robust hydrogen evolution from ammonia borane. <i>Journal of Energy Chemistry</i> , 2021, 57, 198-205.	12.9	72

#	ARTICLE	IF	CITATIONS
19	Green synthesis of nitrogen and sulfur co-doped carbon dots from <i>Allium fistulosum</i> for cell imaging. <i>New Journal of Chemistry</i> , 2019, 43, 718-723.	2.8	65
20	Solid-State Red Laser with a Single Longitudinal Mode from Carbon Dots. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25514-25521.	13.8	59
21	Carbon Dots as a Potential Therapeutic Agent for the Treatment of Cancer-Related Anemia. <i>Advanced Materials</i> , 2022, 34, e2200905.	21.0	52
22	S,N-Codoped oil-soluble fluorescent carbon dots for a high color-rendering WLED. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4343-4349.	5.5	47
23	Cross-linking enhanced room-temperature phosphorescence of carbon dots. <i>SmartMat</i> , 2022, 3, 337-348.	10.7	42
24	Engineering white light-emitting diodes with high color rendering index from biomass carbonized polymer dots. <i>Journal of Colloid and Interface Science</i> , 2021, 598, 274-282.	9.4	36
25	Simulating the Structure of Carbon Dots via Crystalline Aggregated Organic Nanodots Prepared by Kinetically Trapped Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	11
26	Effects of local matrix environment on the spectroscopic properties of ensemble to single-particle level carbon dots. <i>Chinese Chemical Letters</i> , 2022, 33, 751-756.	9.0	10
27	Solid-State Red Laser with a Single Longitudinal Mode from Carbon Dots. <i>Angewandte Chemie</i> , 2021, 133, 25718-25725.	2.0	9
28	Rational Building of Nonblinking Carbon Dots via Charged State Recovery. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8614-8620.	4.6	6
29	Carbon Dots As a Potential Therapeutic Agent for Anemia Treatment in Malignancies. <i>Blood</i> , 2019, 134, 941-941.	1.4	5
30	Simulating the Structure of Carbon Dots via Crystalline Aggregated Organic Nanodots Prepared by Kinetically Trapped Self-Assembly. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3