Yiqun Zhou

List of Publications by Year in descending order

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49 papers	3,309 citations	172457 29 h-index	214800 47 g-index
50 all docs	50 docs citations	50 times ranked	3730 citing authors

#	Article	IF	Citations
1	Synthesis Mechanisms, Structural Models, and Photothermal Therapy Applications of Top-Down Carbon Dots from Carbon Powder, Graphite, Graphene, and Carbon Nanotubes. International Journal of Molecular Sciences, 2022, 23, 1456.	4.1	41
2	Carbon dot composites for bioapplications: a review. Journal of Materials Chemistry B, 2022, 10, 843-869.	5.8	33
3	Structure-activity relationship of carbon nitride dots in inhibiting Tau aggregation. Carbon, 2022, 193, 1-16.	10.3	20
4	Phenylenediamine-derived near infrared carbon dots: The kilogram-scale preparation, formation process, photoluminescence tuning mechanism and application as red phosphors. Carbon, 2022, 192, 198-208.	10.3	69
5	Drug delivery of memantine with carbon dots for Alzheimerâ€™s disease: bloodâ€“brain barrier penetration and inhibition of tau aggregation. Journal of Colloid and Interface Science, 2022, 617, 20-31.	9.4	35
6	Development of Red-Emissive Carbon Dots for Bioimaging through a Building Block Approach: Fundamental and Applied Studies. Bioconjugate Chemistry, 2022, 33, 226-237.	3.6	11
7	Determine both the conformation and orientation of a specific residue in Î±-synuclein(61â€“95) even in monolayer by 13C isotopic label and p-polarized multiple-angle incidence resolution spectrometry (pMAIRS). Analytical Sciences, 2022, 38, 935-940.	1.6	2
8	DFMO Carbon Dots for Treatment of Neuroblastoma and Bioimaging. ACS Applied Bio Materials, 2022, 5, 3300-3309.	4.6	6
9	Thermoelectric performance of Cu2Se doped with rapidly synthesized gel-like carbon dots. Journal of Alloys and Compounds, 2021, 864, 157916.	5.5	22
10	3D printed ABS/paraffin hybrid rocket fuels with carbon dots for superior combustion performance. Combustion and Flame, 2021, 225, 428-434.	5.2	21
11	A deep investigation into the structure of carbon dots. Carbon, 2021, 173, 433-447.	10.3	128
12	In vivo characterization of carbon dotsâ€“bone interactions: toward the development of bone-specific nanocarriers for drug delivery. Drug Delivery, 2021, 28, 1281-1289.	5.7	9
13	Crossing the bloodâ€“brain barrier with carbon dots: uptake mechanism andin vivocargo delivery. Nanoscale Advances, 2021, 3, 3942-3953.	4.6	34
14	Photosynthesis Enhancement in Maize via Nontoxic Orange Carbon Dots. Journal of Agricultural and Food Chemistry, 2021, 69, 5446-5451.	5.2	29
15	Metformin derived carbon dots: Highly biocompatible fluorescent nanomaterials as mitochondrial targeting and blood-brain barrier penetrating biomarkers. Journal of Colloid and Interface Science, 2021, 592, 485-497.	9.4	47
16	Carbon Dots: A Future Bloodâ€“Brain Barrier Penetrating Nanomedicine and Drug Nanocarrier. International Journal of Nanomedicine, 2021, Volume 16, 5003-5016.	6.7	64
17	Gel-like carbon dots: A high-performance future photocatalyst. Journal of Colloid and Interface Science, 2021, 599, 519-532.	9.4	22
18	Facile and Sensitive Detection of Nitrogen-Containing Organic Bases with Near Infrared C-Dots Derived Assays. Nanomaterials, 2021, 11, 2607.	4.1	7

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19	Facile Synthesis of â€œBoron-Dopedâ€•Carbon Dots and Their Application in Visible-Light-Driven Photocatalytic Degradation of Organic Dyes. Nanomaterials, 2020, 10, 1560.	4.1	40
20	Recent Developments of Carbon Dots in Biosensing: A Review. ACS Sensors, 2020, 5, 2724-2741.	7.8	266
21	Direct conjugation of distinct carbon dots as Lego-like building blocks for the assembly of versatile drug nanocarriers. Journal of Colloid and Interface Science, 2020, 576, 412-425.	9.4	35
22	Rapid qualitative and quantitative analyses of anthocyanin composition in berries from the Tibetan Plateau with UPLC-quadruple-Orbitrap MS and their antioxidant activities. European Journal of Mass Spectrometry, 2020, 26, 301-308.	1.0	5
23	Pediatric glioblastoma target-specific efficient delivery of gemcitabine across the bloodâ€“brain barrier via carbon nitride dots. Nanoscale, 2020, 12, 7927-7938.	5.6	43
24	Bone Tissue Engineering via Carbonâ€Based Nanomaterials. Advanced Healthcare Materials, 2020, 9, e1901495.	7.6	111
25	Recent advances on utilization of bioprinting for tumor modeling. Bioprinting, 2020, 18, e00079.	5.8	22
26	Polyethylene glycol (PEG) derived carbon dots: Preparation and applications. Applied Materials Today, 2020, 20, 100677.	4.3	69
27	THER-35. TARGETED DUAL DRUG DELIVERY USING NON-TOXIC CARBON DOTS AS A NANOCARRIER FOR PEDIATRIC BRAIN TUMORS. Neuro-Oncology, 2019, 21, ii121-ii121.	1.2	0
28	Nanoparticle-mediated approaches for Alzheimerâ€™s disease pathogenesis, diagnosis, and therapeutics. Journal of Controlled Release, 2019, 314, 125-140.	9.9	43
29	Tryptophan carbon dots and their ability to cross the blood-brain barrier. Colloids and Surfaces B: Biointerfaces, 2019, 176, 488-493.	5.0	71
30	Carbon Dots: Diverse Preparation, Application, and Perspective in Surface Chemistry. Langmuir, 2019, 35, 9115-9132.	3.5	70
31	Close-Packed Langmuir Monolayers of Saccharide-Based Carbon Dots at the Airâ€“Subphase Interface. Langmuir, 2019, 35, 6708-6718.	3.5	21
32	Nanoparticle-mediated targeted drug delivery for breast cancer treatment. Biochimica Et Biophysica Acta: Reviews on Cancer, 2019, 1871, 419-433.	7.4	151
33	Triple conjugated carbon dots as a nano-drug delivery model for glioblastoma brain tumors. Nanoscale, 2019, 11, 6192-6205.	5.6	184
34	Size-dependent photocatalytic activity of carbon dots with surface-state determined photoluminescence. Applied Catalysis B: Environmental, 2019, 248, 157-166.	20.2	165
35	Recent development of carbon quantum dots regarding their optical properties, photoluminescence mechanism, and core structure. Nanoscale, 2019, 11, 4634-4652.	5.6	301
36	Nontoxic amphiphilic carbon dots as promising drug nanocarriers across the bloodâ€“brain barrier and inhibitors of Î²-amyloid. Nanoscale, 2019, 11, 22387-22397.	5.6	83

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37	Insights into the photoluminescence properties of gel-like carbon quantum dots embedded in poly(methyl methacrylate) polymer. Materials Today Communications, 2019, 18, 32-38.	1.9	11
38	Carbon Nitride Dots: A Selective Bioimaging Nanomaterial. Bioconjugate Chemistry, 2019, 30, 111-123.	3.6	62
39	Crossing Bloodâ€Brain Barrier with Carbon Quantum Dots. FASEB Journal, 2019, 33, 785.8.	0.5	9
40	Quantification of Nucleic Acid Concentration in the Nanoparticle or Polymer Conjugates Using Circular Dichroism Spectroscopy. Analytical Chemistry, 2018, 90, 2255-2262.	6.5	8
41	Crossing the blood-brain barrier with nanoparticles. Journal of Controlled Release, 2018, 270, 290-303.	9.9	512
42	Carbon dots and gold nanoparticles based immunoassay for detection of alpha-L-fucosidase. Analytica Chimica Acta, 2018, 1041, 114-121.	5.4	45
43	Embedding Carbon Dots in Superabsorbent Polymers for Additive Manufacturing. Polymers, 2018, 10, 921.	4.5	39
44	Photoluminescent Carbon Dots: A Mixture of Heterogeneous Fractions. ChemPhysChem, 2018, 19, 2589-2597.	2.1	49
45	Enhancement of Thermoelectric Figure of Merit of Bi2Te3 Using Carbon Dots. , 2018, , .		2
46	Gelâ€like Carbon Dots: Characterization and their Potential Applications. ChemPhysChem, 2017, 18, 890-897.	2.1	48
47	Carbon dots: promising biomaterials for bone-specific imaging and drug delivery. Nanoscale, 2017, 9, 17533-17543.	5.6	118
48	Polymers in Carbon Dots: A Review. Polymers, 2017, 9, 67.	4.5	112
49	Rheology of a carbon dot gel. Inorganica Chimica Acta, 2017, 468, 119-124.	2.4	13