

# Xu Han

## List of Publications by Year in descending order

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65  
papers

4,957  
citations

87888

38  
h-index

106344

65  
g-index

68  
all docs

68  
docs citations

68  
times ranked

5851  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crossing the blood-brain barrier with nanoparticles. <i>Journal of Controlled Release</i> , 2018, 270, 290-303.	9.9	512
2	Carbon dots: Biomacromolecule interaction, bioimaging and nanomedicine. <i>Coordination Chemistry Reviews</i> , 2017, 343, 256-277.	18.8	312
3	Recent development of carbon quantum dots regarding their optical properties, photoluminescence mechanism, and core structure. <i>Nanoscale</i> , 2019, 11, 4634-4652.	5.6	301
4	Recent Developments of Carbon Dots in Biosensing: A Review. <i>ACS Sensors</i> , 2020, 5, 2724-2741.	7.8	266
5	Triple conjugated carbon dots as a nano-drug delivery model for glioblastoma brain tumors. <i>Nanoscale</i> , 2019, 11, 6192-6205.	5.6	184
6	Transferrin conjugated nontoxic carbon dots for doxorubicin delivery to target pediatric brain tumor cells. <i>Nanoscale</i> , 2016, 8, 16662-16669.	5.6	175
7	Cancer Targeting and Drug Delivery Using Carbon-Based Quantum Dots and Nanotubes. <i>Molecules</i> , 2018, 23, 378.	3.8	173
8	Nontoxic Carbon Dots Potently Inhibit Human Insulin Fibrillation. <i>Chemistry of Materials</i> , 2015, 27, 1764-1771.	6.7	167
9	Size-dependent photocatalytic activity of carbon dots with surface-state determined photoluminescence. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 157-166.	20.2	165
10	Nanoparticle-mediated targeted drug delivery for breast cancer treatment. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2019, 1871, 419-433.	7.4	151
11	Recent Development of Cardiac Troponin I Detection. <i>ACS Sensors</i> , 2016, 1, 106-114.	7.8	131
12	A deep investigation into the structure of carbon dots. <i>Carbon</i> , 2021, 173, 433-447.	10.3	128
13	Carbon dots: promising biomaterials for bone-specific imaging and drug delivery. <i>Nanoscale</i> , 2017, 9, 17533-17543.	5.6	118
14	Polymers in Carbon Dots: A Review. <i>Polymers</i> , 2017, 9, 67.	4.5	112
15	Bone Tissue Engineering via Carbon-Based Nanomaterials. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901495.	7.6	111
16	Crossing the blood-brain barrier with transferrin conjugated carbon dots: A zebrafish model study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 251-256.	5.0	99
17	Method To Determine Protein Concentration in the Protein-Nanoparticle Conjugates Aqueous Solution Using Circular Dichroism Spectroscopy. <i>Analytical Chemistry</i> , 2015, 87, 6455-6459.	6.5	88
18	Nontoxic amphiphilic carbon dots as promising drug nanocarriers across the blood-brain barrier and inhibitors of $\beta$ -amyloid. <i>Nanoscale</i> , 2019, 11, 22387-22397.	5.6	83

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19	Tryptophan carbon dots and their ability to cross the blood-brain barrier. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 488-493.	5.0	71
20	Carbon Dots: Diverse Preparation, Application, and Perspective in Surface Chemistry. <i>Langmuir</i> , 2019, 35, 9115-9132.	3.5	70
21	Polyethylene glycol (PEG) derived carbon dots: Preparation and applications. <i>Applied Materials Today</i> , 2020, 20, 100677.	4.3	69
22	Phenylenediamine-derived near infrared carbon dots: The kilogram-scale preparation, formation process, photoluminescence tuning mechanism and application as red phosphors. <i>Carbon</i> , 2022, 192, 198-208.	10.3	69
23	Preparation of polystyrene-supported Lewis acidic Fe(III) ionic liquid and its application in catalytic conversion of carbon dioxide. <i>Tetrahedron</i> , 2012, 68, 3835-3842.	1.9	68
24	Beam pen lithography as a new tool for spatially controlled photochemistry, and its utilization in the synthesis of multivalent glycan arrays. <i>Chemical Science</i> , 2014, 5, 2023.	7.4	65
25	Biocompatible and blood-brain barrier permeable carbon dots for inhibition of A $\beta$ fibrillation and toxicity, and BACE1 activity. <i>Nanoscale</i> , 2017, 9, 12862-12866.	5.6	64
26	Carbon Dots: A Future Blood-Brain Barrier Penetrating Nanomedicine and Drug Nanocarrier. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 5003-5016.	6.7	64
27	Carbon Nitride Dots: A Selective Bioimaging Nanomaterial. <i>Bioconjugate Chemistry</i> , 2019, 30, 111-123.	3.6	62
28	Toward a Rational Design to Regulate $\beta$ -Amyloid Fibrillation for Alzheimer's Disease Treatment. <i>ACS Chemical Neuroscience</i> , 2018, 9, 198-210.	3.5	60
29	Interactions between Carbon Nanomaterials and Biomolecules. <i>Journal of Oleo Science</i> , 2016, 65, 1-7.	1.4	52
30	Photoluminescent Carbon Dots: A Mixture of Heterogeneous Fractions. <i>ChemPhysChem</i> , 2018, 19, 2589-2597.	2.1	49
31	Gel-like Carbon Dots: Characterization and their Potential Applications. <i>ChemPhysChem</i> , 2017, 18, 890-897.	2.1	48
32	Metformin derived carbon dots: Highly biocompatible fluorescent nanomaterials as mitochondrial targeting and blood-brain barrier penetrating biomarkers. <i>Journal of Colloid and Interface Science</i> , 2021, 592, 485-497.	9.4	47
33	Determination of the composition, encapsulation efficiency and loading capacity in protein drug delivery systems using circular dichroism spectroscopy. <i>Analytica Chimica Acta</i> , 2016, 937, 113-118.	5.4	46
34	Carbon dots and gold nanoparticles based immunoassay for detection of alpha-L-fucosidase. <i>Analytica Chimica Acta</i> , 2018, 1041, 114-121.	5.4	45
35	A resorcinarene for inhibition of A $\beta$ fibrillation. <i>Chemical Science</i> , 2017, 8, 2003-2009.	7.4	44
36	Photoinduced Electron Transfer in Carbon Dots with Long-Wavelength Photoluminescence. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29507-29515.	3.1	44

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37	Nanoparticle-mediated approaches for Alzheimer's disease pathogenesis, diagnosis, and therapeutics. <i>Journal of Controlled Release</i> , 2019, 314, 125-140.	9.9	43
38	"Dark" carbon dots specifically "light-up" calcified zebrafish bones. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7398-7405.	5.8	42
39	Synthesis Mechanisms, Structural Models, and Photothermal Therapy Applications of Top-Down Carbon Dots from Carbon Powder, Graphite, Graphene, and Carbon Nanotubes. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1456.	4.1	41
40	Facile Synthesis of "Boron-Doped" Carbon Dots and Their Application in Visible-Light-Driven Photocatalytic Degradation of Organic Dyes. <i>Nanomaterials</i> , 2020, 10, 1560.	4.1	40
41	Embedding Carbon Dots in Superabsorbent Polymers for Additive Manufacturing. <i>Polymers</i> , 2018, 10, 921.	4.5	39
42	Reactions in Elastomeric Nanoreactors Reveal the Role of Force on the Kinetics of the Huisgen Reaction on Surfaces. <i>Journal of the American Chemical Society</i> , 2014, 136, 10553-10556.	13.7	37
43	Direct conjugation of distinct carbon dots as Lego-like building blocks for the assembly of versatile drug nanocarriers. <i>Journal of Colloid and Interface Science</i> , 2020, 576, 412-425.	9.4	35
44	Drug delivery of memantine with carbon dots for Alzheimer's disease: blood-brain barrier penetration and inhibition of tau aggregation. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 20-31.	9.4	35
45	Crossing the blood-brain barrier with carbon dots: uptake mechanism and <i>in vivo</i> cargo delivery. <i>Nanoscale Advances</i> , 2021, 3, 3942-3953.	4.6	34
46	Carbohydrate nanotechnology: hierarchical assembly using nature's other information carrying biopolymers. <i>Current Opinion in Biotechnology</i> , 2015, 34, 41-47.	6.6	33
47	Photosynthesis Enhancement in Maize via Nontoxic Orange Carbon Dots. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 5446-5451.	5.2	29
48	Extended Charge Carrier Lifetimes in Hierarchical Donor-Acceptor Supramolecular Polymer Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19584-19589.	3.1	25
49	The use of nanotechnology to combat liver cancer: Progress and perspectives. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2021, 1876, 188621.	7.4	23
50	Gel-like carbon dots: A high-performance future photocatalyst. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 519-532.	9.4	22
51	pH and redox triggered doxorubicin release from covalently linked carbon dots conjugates. <i>Nanoscale</i> , 2021, 13, 5507-5518.	5.6	22
52	Structure-activity relationship of carbon nitride dots in inhibiting Tau aggregation. <i>Carbon</i> , 2022, 193, 1-16.	10.3	20
53	Ultrasensitive Plasmonic Biosensors for Real-Time Parallel Detection of Alpha-L-Fucosidase and Cardiac-Troponin-I in Whole Human Blood. <i>Analytical Chemistry</i> , 2018, 90, 7795-7799.	6.5	15
54	The Investigation on Resorcinarenes towards either Inhibiting or Promoting Insulin Fibrillation. <i>Chemistry - A European Journal</i> , 2017, 23, 17903-17907.	3.3	14

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55	Rheology of a carbon dot gel. <i>Inorganica Chimica Acta</i> , 2017, 468, 119-124.	2.4	13
56	Fluorescent nanoparticles as tools in ecology and physiology. <i>Biological Reviews</i> , 2021, 96, 2392-2424.	10.4	13
57	Optimized Doxorubicin Chemotherapy for Diffuse Large B-cell Lymphoma Exploits Nanocarrier Delivery to Transferrin Receptors. <i>Cancer Research</i> , 2021, 81, 763-775.	0.9	13
58	Development of Red-Emissive Carbon Dots for Bioimaging through a Building Block Approach: Fundamental and Applied Studies. <i>Bioconjugate Chemistry</i> , 2022, 33, 226-237.	3.6	11
59	In vivo characterization of carbon dots's bone interactions: toward the development of bone-specific nanocarriers for drug delivery. <i>Drug Delivery</i> , 2021, 28, 1281-1289.	5.7	9
60	Quantification of Nucleic Acid Concentration in the Nanoparticle or Polymer Conjugates Using Circular Dichroism Spectroscopy. <i>Analytical Chemistry</i> , 2018, 90, 2255-2262.	6.5	8
61	Chalcones as Anti-Glioblastoma Stem Cell Agent Alone or as Nanoparticle Formulation Using Carbon Dots as Nanocarrier. <i>Pharmaceutics</i> , 2022, 14, 1465.	4.5	7
62	DFMO Carbon Dots for Treatment of Neuroblastoma and Bioimaging. <i>ACS Applied Bio Materials</i> , 2022, 5, 3300-3309.	4.6	6
63	Interactions between Graphene Oxide and Biomolecules from Surface Chemistry and Spectroscopy. <i>ACS Symposium Series</i> , 2015, , 43-64.	0.5	5
64	Drug Loading of Anthracycline Antibiotics on Carbon Dots Using Circular Dichroism Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 14773-14777.	6.5	5
65	Dual targeting nano-approaches for Alzheimer's disease etiology. <i>Neural Regeneration Research</i> , 2021, 16, 119.	3.0	4