Sheng-Tao Yang

List of Publications by Year
in descending order

131 papers	11,724 citations	61857 43 h-index	26548 107 g-index
135 all docs	135 docs citations	135 times ranked	14993 citing authors

#	Article	IF	Citations
1	Carbon Dots for Optical Imaging in Vivo. Journal of the American Chemical Society, 2009, 131, 11308-11309.	6.6	1,341
2	In vitro toxicity evaluation of graphene oxide on A549 cells. Toxicology Letters, 2011, 200, 201-210.	0.4	1,149
3	Carbon Dots as Nontoxic and High-Performance Fluorescence Imaging Agents. Journal of Physical Chemistry C, 2009, 113, 18110-18114.	1.5	829
4	Carbon â€œquantumâ€•dots for optical bioimaging. Journal of Materials Chemistry B, 2013, 1, 2116.	2.9	708
5	Removal of methylene blue from aqueous solution by graphene oxide. Journal of Colloid and Interface Science, 2011, 359, 24-29.	5.0	602
6	Bandgapâ€Like Strong Fluorescence in Functionalized Carbon Nanoparticles. Angewandte Chemie - International Edition, 2010, 49, 5310-5314.	7.2	549
7	Folding/aggregation of graphene oxide and its application in Cu2+ removal. Journal of Colloid and Interface Science, 2010, 351, 122-127.	5.0	517
8	Long-term accumulation and low toxicity of single-walled carbon nanotubes in intravenously exposed mice. Toxicology Letters, 2008, 181, 182-189.	0.4	409
9	Carbon-based quantum dots for fluorescence imaging of cells and tissues. RSC Advances, 2014, 4, 10791.	1.7	298
10	Translocation and fate of multi-walled carbon nanotubes in vivo. Carbon, 2007, 45, 1419-1424.	5.4	251
11	Biosafety and Bioapplication of Nanomaterials by Designing Proteinâ€“Nanoparticle Interactions. Small, 2013, 9, 1635-1653.	5.2	230
12	Biodistribution of Pristine Single-Walled Carbon Nanotubes In Vivoâ€. Journal of Physical Chemistry C, 2007, 111, 17761-17764.	1.5	225
13	Effect of size and dose on the biodistribution of graphene oxide in mice. Nanomedicine, 2012, 7, 1801-1812.	1.7	184
14	Adsorption behavior of copper ions on graphene oxideâ€“chitosan aerogel. Journal of Environmental Chemical Engineering, 2013, 1, 1044-1050.	3.3	179
15	Competitive Performance of Carbon â€œQuantumâ€•Dots in Optical Bioimaging. Theranostics, 2012, 2, 295-301.	4.6	167
16	Covalently PEGylated Carbon Nanotubes with Stealth Character In Vivo. Small, 2008, 4, 940-944.	5.2	153
17	Pharmacokinetics, Metabolism and Toxicity of Carbon Nanotubes for Biomedical Purposes. Theranostics, 2012, 2, 271-282.	4.6	147
18	Pulmonary toxicity and translocation of nanodiamonds in mice. Diamond and Related Materials, 2010, 19, 291-299.	1.8	138

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19	Functionalized carbon nanoparticles: Syntheses and applications in optical bioimaging and energy conversion. Coordination Chemistry Reviews, 2016, 320-321, 66-81.	9.5	122
20	Adsorption behaviors of tetracycline on magnetic graphene oxide sponge. Materials Chemistry and Physics, 2017, 198, 283-290.	2.0	121
21	Facile hydrothermal preparation of recyclable S-doped graphene sponge for Cu2+ adsorption. Journal of Hazardous Materials, 2015, 286, 449-456.	6.5	100
22	Bioaccumulation and Toxicity of ¹³C-Skeleton Labeled Graphene Oxide in Wheat. Environmental Science & Technology, 2017, 51, 10146-10153.	4.6	100
23	Fullerene-Conjugated Doxorubicin in Cells. ACS Applied Materials & Interfaces, 2010, 2, 1384-1389.	4.0	81
24	Magnetic graphene sponge for the removal of methylene blue. Applied Surface Science, 2015, 351, 765-771.	3.1	80
25	One-pot hydrothermal preparation of graphene sponge for the removal of oils and organic solvents. Applied Surface Science, 2016, 362, 56-62.	3.1	77
26	Toxicity of graphene oxide to white rot fungus Phanerochaete chrysosporium. Chemosphere, 2016, 151, 324-331.	4.2	77
27	Fluorescent Carbon Dots and Nanodiamonds for Biological Imaging: Preparation, Application, Pharmacokinetics and Toxicity. Current Drug Metabolism, 2012, 13, 1046-1056.	0.7	75
28	Hydrothermal preparation of magnetic Fe3O4@C nanoparticles for dye adsorption. Journal of Environmental Chemical Engineering, 2014, 2, 907-913.	3.3	74
29	A generally adoptable radiotracing method for tracking carbon nanotubes in animals. Nanotechnology, 2008, 19, 075101.	1.3	69
30	Blood Clearance, Distribution, Transformation, Excretion, and Toxicity of Near-Infrared Quantum Dots Ag₂Se in Mice. ACS Applied Materials & Interfaces, 2016, 8, 17859-17869.	4.0	68
31	Fe₃O₄@SiO₂ nanoparticles as a high-performance Fenton-like catalyst in a neutral environment. RSC Advances, 2015, 5, 5458-5463.	1.7	66
32	Cytotoxicity of Zinc Oxide Nanoparticles: Importance of Microenvironment. Journal of Nanoscience and Nanotechnology, 2010, 10, 8638-8645.	0.9	65
33	Quantification of Carbon Nanomaterials in Vivo. Accounts of Chemical Research, 2013, 46, 750-760.	7.6	63
34	Adsorption and desorption of doxorubicin on oxidized carbon nanotubes. Colloids and Surfaces B: Biointerfaces, 2012, 97, 62-69.	2.5	61
35	Interaction of fullerenol with lysozyme investigated by experimental and computational approaches. Nanotechnology, 2008, 19, 395101.	1.3	60
36	A Facile Method To Encapsulate Proteins in Silica Nanoparticles: Encapsulated Green Fluorescent Protein as a Robust Fluorescence Probe. Angewandte Chemie - International Edition, 2010, 49, 3022-3025.	7.2	60

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37	Macrocyclization of Interferonâ€“Poly(Î±-amino acid) Conjugates Significantly Improves the Tumor Retention, Penetration, and Antitumor Efficacy. Journal of the American Chemical Society, 2018, 140, 1170-1178.	6.6	59
38	Preparation of graphene adsorbents and their applications in water purification. Reviews in Inorganic Chemistry, 2013, 33, 139-160.	1.8	56
39	Influence of graphene oxide and reduced graphene oxide on the activity and conformation of lysozyme. Colloids and Surfaces B: Biointerfaces, 2017, 154, 96-103.	2.5	51
40	Aqueous Compatible Fullereneâ˜Doxorubicin Conjugates. Journal of Physical Chemistry C, 2009, 113, 17768-17773.	1.5	50
41	Porous graphene oxideâ€“chitosan aerogel for tetracycline removal. Materials Research Express, 2014, 1, 015601.	0.8	45
42	Low toxicity and accumulation of zinc oxide nanoparticles in mice after 270-day consecutive dietary supplementation. Toxicology Research, 2017, 6, 134-143.	0.9	45
43	Chemical reduction of graphene enhances in vivo translocation and photosynthetic inhibition in pea plants. Environmental Science: Nano, 2019, 6, 1077-1088.	2.2	44
44	Selective Interactions of Sugar-Functionalized Single-Walled Carbon Nanotubes with Bacillus Spores. ACS Nano, 2009, 3, 3909-3916.	7.3	43
45	Bioaccumulation of ¹³C-fullerenol nanomaterials in wheat. Environmental Science: Nano, 2016, 3, 799-805.	2.2	43
46	Influences of the Size and Hydroxyl Number of Fullerenes/Fullerenols on Their Interactions with Proteins. Journal of Nanoscience and Nanotechnology, 2010, 10, 6298-6304.	0.9	42
47	Acute toxicity of zinc oxide nanoparticles to the rat olfactory system after intranasal instillation. Journal of Applied Toxicology, 2013, 33, 1079-1088.	1.4	42
48	Competitive adsorption of heavy metal ions on carbon nanotubes and the desorption in simulated biofluids. Journal of Colloid and Interface Science, 2015, 448, 347-355.	5.0	42
49	Rapid translocation and pharmacokinetics of hydroxylated single-walled carbon nanotubes in mice. Nanotoxicology, 2008, 2, 28-32.	1.6	41
50	Biodefunctionalization of Functionalized Single-Walled Carbon Nanotubes in Mice. Biomacromolecules, 2009, 10, 2009-2012.	2.6	40
51	Decoloration of methylene blue by heterogeneous Fenton-like oxidation on Fe 3 O 4 /SiO 2 /C nanospheres in neutral environment. Materials Chemistry and Physics, 2018, 213, 231-238.	2.0	39
52	Carboxylated graphene oxide-chitosan spheres immobilize Cu2+ in soil and reduce its bioaccumulation in wheat plants. Environment International, 2019, 133, 105208.	4.8	38
53	Fe3O4@C nanoparticles as high-performance Fenton-like catalyst for dye decoloration. Science Bulletin, 2014, 59, 3406-3412.	1.7	37
54	Bioaccumulation and Toxicity of Carbon Nanoparticles Suspension Injection in Intravenously Exposed Mice. International Journal of Molecular Sciences, 2017, 18, 2562.	1.8	37

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55	Diameter-selective dispersion of double-walled carbon nanotubes by lysozyme. Nanoscale, 2011, 3, 970.	2.8	36
56	Preparation and Application of Carboxylated Graphene Oxide Sponge in Dye Removal. International Journal of Environmental Research and Public Health, 2017, 14, 1301.	1.2	36
57	CYTOTOXICITY EVALUATIONS OF FLUORESCENT CARBON NANOPARTICLES. Nano LIFE, 2010, 01, 153-161.	0.6	35
58	Adsorptive decontamination of Cu2+-contaminated water and soil by carboxylated graphene oxide/chitosan/cellulose composite beads. Environmental Research, 2019, 179, 108779.	3.7	34
59	Molecular Toxicity of Nanomaterials. Journal of Biomedical Nanotechnology, 2014, 10, 2828-2851.	0.5	33
60	TiO2â€“graphene sponge for the removal of tetracycline. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	33
61	Graphene Oxide/Chitosan Composite for Methylene Blue Adsorption. Nanoscience and Nanotechnology Letters, 2013, 5, 372-376.	0.4	33
62	Fe3O4/TiO2/reduced graphene oxide composites as highly efficient Fenton-like catalyst for the decoloration of methylene blue. Materials Chemistry and Physics, 2019, 223, 751-757.	2.0	32
63	Fungal transformation of graphene by white rot fungus Phanerochaete chrysosporium. Chemosphere, 2019, 216, 9-18.	4.2	32
64	Carbon Nanoparticles Trapped in Vivoâ€”Similar to Carbon Nanotubes in Time-Dependent Biodistribution. ACS Applied Materials & Interfaces, 2014, 6, 14672-14678.	4.0	30
65	Toxicity of graphene oxide to naked oats (Avena sativaÂL.) in hydroponic and soil cultures. RSC Advances, 2018, 8, 15336-15343.	1.7	30
66	Toxicity and photosynthetic inhibition of metal-organic framework MOF-199 to pea seedlings. Journal of Hazardous Materials, 2021, 409, 124521.	6.5	30
67	Stepwise pH-sensitive and biodegradable polypeptide hybrid micelles for enhanced cellular internalization and efficient nuclear drug delivery. Colloids and Surfaces B: Biointerfaces, 2019, 181, 315-324.	2.5	29
68	Carboxylation as an effective approach to improve the adsorption performance of graphene materials for Cu2+ removal. Science of the Total Environment, 2019, 682, 591-600.	3.9	28
69	Toxicity of Nano Gamma Alumina to Neural Stem Cells. Journal of Nanoscience and Nanotechnology, 2011, 11, 7848-7856.	0.9	27
70	Fe₃O₄/SiO₂/C nanocomposite as a high-performance Fenton-like catalyst in a neutral environment. RSC Advances, 2016, 6, 8594-8600.	1.7	27
71	Quantification of carbon nanomaterials in vivo: direct stable isotope labeling on the skeleton of fullerene C₆₀. Environmental Science: Nano, 2014, 1, 64-70.	2.2	26
72	Preparation of Fe3O4/TiO2/C Nanocomposites and Their Application in Fenton-Like Catalysis for Dye Decoloration. Catalysts, 2016, 6, 146.	1.6	26

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73	Influence of reduced graphene oxide on the growth, structure and decomposition activity of white-rot fungus Phanerochaete chrysosporium. RSC Advances, 2018, 8, 5026-5033.	1.7	26
74	Toxicity of nanodiamonds to white rot fungi Phanerochaete chrysosporium through oxidative stress. Colloids and Surfaces B: Biointerfaces, 2020, 187, 110658.	2.5	25
75	Interaction between graphene oxide and nitrogen-fixing bacterium Azotobacter chroococcum: Transformation, toxicity and nitrogen fixation. Carbon, 2020, 160, 5-13.	5.4	25
76	Advances in Biodistribution Study and Tracing Methodology of Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2010, 10, 8469-8481.	0.9	24
77	Removal of carbon nanotubes from aqueous environment with filter paper. Chemosphere, 2011, 82, 621-626.	4.2	24
78	Biological behaviors and chemical fates of Ag2Se quantum dots in vivo: the effect of surface chemistry. Toxicology Research, 2017, 6, 693-704.	0.9	24
79	Surface modification-mediated biodistribution of 13C-fullerene C60 in vivo. Particle and Fibre Toxicology, 2015, 13, 14.	2.8	23
80	Skeleton labeled ¹³C-carbon nanoparticles for the imaging and quantification in tumor drainage lymph nodes. International Journal of Nanomedicine, 2017, Volume 12, 4891-4899.	3.3	23
81	Toxicity of Pristine and Chemically Functionalized Fullerenes to White Rot Fungus Phanerochaete chrysosporium. Nanomaterials, 2018, 8, 120.	1.9	22
82	Core@shell Fe₃O₄@Mn²⁺-doped NaYF₄:Yb/Tm nanoparticles for triple-modality T₁/T₂-weighted MRI and NIR-to-NIR upconversion luminescence imaging agents. RSC Advances, 2017, 7, 37929-37937.	1.7	21
83	TiO2-doped Fe3O4 nanoparticles as high-performance Fenton-like catalyst for dye decoloration. Science China Technological Sciences, 2015, 58, 858-863.	2.0	20
84	Advances in the applications of graphene adsorbents: from water treatment to soil remediation. Reviews in Inorganic Chemistry, 2019, 39, 47-76.	1.8	20
85	Bioavailability and preliminary toxicity evaluations of alumina nanoparticles in vivo after oral exposure. Toxicology Research, 2012, 1, 69-74.	0.9	19
86	Toxicity of carbon nanotubes to white rot fungus Phanerochaete chrysosporium. Ecotoxicology and Environmental Safety, 2018, 162, 225-234.	2.9	19
87	Stepwise dual pH and redox-responsive cross-linked polypeptide nanoparticles for enhanced cellular uptake and effective cancer therapy. Journal of Materials Chemistry B, 2019, 7, 7129-7140.	2.9	19
88	Toxicity of graphene oxide to white moss Leucobryum glaucum. RSC Advances, 2017, 7, 50287-50293.	1.7	18
89	Magnetic Fe3O4/TiO2/graphene sponge for the adsorption of methylene blue in aqueous solution. Diamond and Related Materials, 2022, 123, 108811.	1.8	18
90	Carbon nanoparticles suspension injection for photothermal therapy of xenografted human thyroid carcinoma in vivo. MedComm, 2020, 1, 202-210.	3.1	17

#	Article	IF	Citations
91	Harnessing Phosphato-Platinum Bonding Induced Supramolecular Assembly for Systemic Cisplatin Delivery. ACS Applied Materials & Interfaces, 2017, 9, 17757-17768.	4.0	15
92	Carbon nanoparticles suspension injection for the delivery of doxorubicin: Comparable efficacy and reduced toxicity. Materials Science and Engineering C, 2018, 92, 416-423.	3.8	15
93	Fast Identification and Quantification of Graphene Oxide in Aqueous Environment by Raman Spectroscopy. Nanomaterials, 2020, 10, 770.	1.9	15
94	Fabrication of TiO₂-Graphene Oxide Aerogel for the Adsorption of Copper Ions. Nanoscience and Nanotechnology Letters, 2014, 6, 1018-1023.	0.4	15
95	The isotopic effects of ¹³C-labeled large carbon cage (C₇₀) fullerenes and their formation process. RSC Advances, 2015, 5, 76949-76956.	1.7	14
96	Role of Mn2+ Doping in the Preparation of Core-Shell Structured Fe3O4@upconversion Nanoparticles and Their Applications in T1/T2-Weighted Magnetic Resonance Imaging, Upconversion Luminescent Imaging and Near-Infrared Activated Photodynamic Therapy. Nanomaterials, 2018, 8, 466.	1.9	14
97	Toxicity and activity inhibition of metal-organic framework MOF-199 to nitrogen-fixing bacterium Azotobacter vinelandii. Science of the Total Environment, 2022, 813, 151912.	3.9	14
98	Highâ€Performance Red/Nearâ€IR Carbon Dots as Fluorescence Probes for Tumor Imaging In Vivo. ChemistrySelect, 2018, 3, 6374-6381.	0.7	13
99	Surface modification mediates the interaction between fullerene and lysozyme: protein structure and antibacterial activity. Environmental Science: Nano, 2021, 8, 76-85.	2.2	13
100	Cytotoxicity and TNF-Î± Secretion in RAW264.7 Macrophages Exposed to Different Fullerene Derivatives. Journal of Nanoscience and Nanotechnology, 2012, 12, 2169-2178.	0.9	12
101	Facile hydrothermal preparation of S-doped Fe3O4@C nanoparticles for Cu2+ removal. Materials Letters, 2014, 135, 154-157.	1.3	12
102	Carbonization reduces the toxicity of metal-organic framework MOF-199 to white-rot fungus Phanerochaete chrysosporium. Journal of Environmental Chemical Engineering, 2021, 9, 106705.	3.3	12
103	Fluorescent Agâ€“Inâ€“S/ZnS Quantum Dots for Tumor Drainage Lymph Node Imaging In Vivo. ACS Applied Nano Materials, 2021, 4, 1029-1037.	2.4	10
104	Toxicity and environmental impact of multi-walled carbon nanotubes to nitrogen-fixing bacterium Azotobacter chroococcum. Journal of Environmental Chemical Engineering, 2021, 9, 105291.	3.3	10
105	Preparation and spectra of ¹³C-enriched fullerene. Chinese Science Bulletin, 2014, 59, 905-912.	0.4	10
106	Adsorption behaviour of methylene blue on carbon nanoparticles. Micro and Nano Letters, 2012, 7, 1060-1063.	0.6	9
107	Effect of reduction degree on the adsorption properties of graphene sponge for dyes. Materials Research Express, 2017, 4, 045008.	0.8	9
108	Biotransformation of Pristine and Oxidized Carbon Nanotubes by the White Rot Fungus Phanerochaete chrysosporium. Nanomaterials, 2019, 9, 1340.	1.9	9

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109	Low toxicity of fluorescent carbon quantum dots to white rot fungus Phanerochaete chrysosporium. Journal of Environmental Chemical Engineering, 2021, 9, 104633.	3.3	9
110	Stable isotope labeling of nanomaterials for biosafety evaluation and drug development. Chinese Chemical Letters, 2022, 33, 3303-3314.	4.8	9
111	Biodistribution of multi-walled carbon nanotubes functionalized by hydroxyl terminated poly(ethylene glycol) in mice. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 1181-1186.	0.7	8
112	Quantification of sp2 carbon nanomaterials in biological systems: pharmacokinetics, biodistribution and ecological uptake. Reviews in Inorganic Chemistry, 2015, 35, 225-247.	1.8	8
113	Oneâ€pot modification of Fe 3 O 4 to prepare Fe 3 O 4 /SiO 2 /C nanoparticles and their catalytic activity in Fentonâ€like process for dye decolouration. Micro and Nano Letters, 2016, 11, 675-679.	0.6	8
114	Low toxicity of metal-organic framework MOF-199 to bacteria Escherichia coli and Staphylococcus aureus. Journal of Hazardous Materials Advances, 2021, 1, 100002.	1.2	8
115	Stimulating effects of reduced graphene oxide on the growth and nitrogen fixation activity of nitrogen-fixing bacterium Azotobacter chroococcum. Chemosphere, 2022, 294, 133702.	4.2	8
116	Carbon Nanoparticles for Cationic Dye (Methylene Blue) Removal from Aqueous Solution. Nanoscience and Nanotechnology Letters, 2012, 4, 839-842.	0.4	7
117	Template-directed self-assembly of a designed amphiphilic hexapeptide on mica surface. Colloid and Polymer Science, 2013, 291, 2263-2270.	1.0	7
118	Research performance and trends of fluorescent carbon nanoparticles: a science citation index expanded-based analysis. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	7
119	Phytotoxicity of VO2 nanoparticles with different sizes to pea seedlings. Ecotoxicology and Environmental Safety, 2022, 242, 113885.	2.9	7
120	Proteins: Biosafety and Bioapplication of Nanomaterials by Designing Proteinâ€“Nanoparticle Interactions (Small 9â€“10/2013). Small, 2013, 9, 1414-1414.	5.2	6
121	Carbon Nanoparticles as Recyclable Adsorbent for the Removal of Copper Ions. Nanoscience and Nanotechnology Letters, 2014, 6, 87-93.	0.4	6
122	Reversible environmental impacts of iron-based metal-organic framework MIL-53(Fe) on nitrogen-fixing bacterium Azotobacter vinelandii. Journal of Environmental Chemical Engineering, 2022, 10, 107794.	3.3	6
123	Size and shape controllable preparation of graphene sponge by freezing, lyophilizing and reducing in container. Science China Technological Sciences, 2016, 59, 709-713.	2.0	4
124	Graphene/polyester staple composite for the removal of oils and organic solvents. Materials Research Express, 2016, 3, 065601.	0.8	4
125	Fe3O4/SiO2/C nanocomposites for the fenton-like disinfection of Escherichia coli in water. Materials Research Express, 2019, 6, 055032.	0.8	4
126	Carbon Nanoparticlesâ€“Fe(II) Complex for Efficient Tumor Inhibition with Low Toxicity by Amplifying Oxidative Stress. ACS Applied Materials & Interfaces, 2020, 12, 29094-29102.	4.0	4

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127	Biocompatible zinc gallogermanate persistent luminescent nanoparticles for fast tumor drainage lymph node imaging in vivo. Colloids and Surfaces B: Biointerfaces, 2021, 205, 111887.	2.5	4
128	Carbon coated titanium electrode for the electrolytic decoloration of methylene blue. Journal of Water Process Engineering, 2016, 13, 183-188.	2.6	3
129	A smart cluster paradigm based Mo-containing polyoxometalate as a new therapeutic strategy for tumor-specific photothermal therapy. Science Bulletin, 2018, 63, 877-878.	4.3	3
130	Fe-Based Single-Atom Nanozyme with Superior Peroxidase-Mimicking Activity for Enhanced Ultrasensitive Biosensing. Journal of Nanoscience and Nanotechnology, 2021, 21, 6126-6134.	0.9	3
131	Preparation of graphene sponge by vapor phase reduction for oil and organic solvent removal. Materials Research Express, 2016, 3, 105602.	0.8	1