Ya-Ping Sun

List of Publications by Year
in descending order

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130 papers	24,256 citations	19608 61 h-index	15683 125 g-index
138 all docs	138 docs citations	138 times ranked	20172 citing authors

#	Article	IF	Citations
1	Advances in Studies of Boron Nitride Nanosheets and Nanocomposites for Thermal Transport and Related Applications. ChemPhysChem, 2022, 23, .	1.0	12
2	Carbon â€œquantumâ€•dots for bioapplications. Experimental Biology and Medicine, 2022, 247, 300-309.	1.1	13
3	Photoexcited State Properties of Poly(9-vinylcarbazole)-Functionalized Carbon Dots in Solution versus in Nanocomposite Films: Implications for Solid-State Optoelectronic Devices. ACS Applied Nano Materials, 2022, 5, 2820-2827.	2.4	7
4	Inactivation of Vesicular Stomatitis Virus with Light-Activated Carbon Dots and Mechanistic Implications. ACS Applied Bio Materials, 2022, 5, 3158-3166.	2.3	5
5	Supercritical fluid processing of boron nitride nanosheets for polymeric nanocomposites of superior thermal transport properties. Journal of Supercritical Fluids, 2021, 167, 105035.	1.6	6
6	Carbon dots versus nano-carbon/organic hybrids â€“ dramatically different behaviors in fluorescence sensing of metal cations with structural and mechanistic implications. Nanoscale Advances, 2021, 3, 2316-2324.	2.2	16
7	On the myth of â€œred/near-IR carbon quantum dotsâ€•from thermal processing of specific colorless organic precursors. Nanoscale Advances, 2021, 3, 4186-4195.	2.2	23
8	Photoactivated Carbon Dots for Inactivation of Foodborne Pathogens Listeria and Salmonella. Applied and Environmental Microbiology, 2021, 87, e0104221.	1.4	12
9	Visible Light-Activated Carbon Dots for Inhibiting Biofilm Formation and Inactivating Biofilm-Associated Bacterial Cells. Frontiers in Bioengineering and Biotechnology, 2021, 9, 786077.	2.0	7
10	Carbon Dots: Zero-Dimensional Carbon Allotrope with Unique Photoinduced Redox Characteristics. ACS Omega, 2020, 5, 965-971.	1.6	47
11	Carbon Dots as Potent Antimicrobial Agents. Theranostics, 2020, 10, 671-686.	4.6	241
12	Photoexcited state properties and antibacterial activities of carbon dots relevant to mechanistic features and implications. Carbon, 2020, 170, 137-145.	5.4	42
13	Carbon dots for effective photodynamic inactivation of virus. RSC Advances, 2020, 10, 33944-33954.	1.7	15
14	Carbon dots for highly effective photodynamic inactivation of multidrug-resistant bacteria. Materials Advances, 2020, 1, 321-325.	2.6	27
15	Optical and photodynamic properties of carbon/TiO2 hybrid dots in different nanoscale configurations. Chemical Physics Letters, 2020, 743, 137208.	1.2	1
16	Carbon Dots. , 2020, , .		20
17	Dispersion of high-quality boron nitride nanosheets in polyethylene for nanocomposites of superior thermal transport properties. Nanoscale Advances, 2020, 2, 2507-2513.	2.2	24
18	Other Syntheses: Popular Methods and Issues. , 2020, , 109-130.		0

#	Article	IF	Citations
19	Carbon Hybrid Dots. , 2020, , 165-190.		0
20	Nanoscale Carbon Allotropes. , 2020, , 7-46.		2
21	Boron Nitride Nanosheets from Different Preparations and Correlations with Their Material Properties. Industrial & Engineering Chemistry Research, 2019, 58, 18644-18653.	1.8	25
22	The dominant role of surface functionalization in carbon dots’ photo-activated antibacterial activity . International Journal of Nanomedicine, 2019, Volume 14, 2655-2665.	3.3	69
23	Effects of carbon dots surface functionalities on cellular behaviors â€“ Mechanistic exploration for opportunities in manipulating uptake and translocation. Colloids and Surfaces B: Biointerfaces, 2019, 181, 48-57.	2.5	17
24	Carbon dots for energy conversion applications. Journal of Applied Physics, 2019, 125, .	1.1	46
25	Design and fabrication of carbon dots for energy conversion and storage. Chemical Society Reviews, 2019, 48, 2315-2337.	18.7	552
26	Hybrid carbon dots platform enabling opportunities for desired optical properties and redox characteristics by-design. Chemical Physics Letters, 2019, 724, 8-12.	1.2	12
27	Evaluation of Commercial â€œCarbon Quantum Dotsâ€•Sample on Origins of Red Absorption and Emission Features. Journal of Carbon Research, 2019, 5, 70.	1.4	15
28	Systematic Toxicity Evaluations of High-Performance Carbon â€œQuantumâ€•Dots. Journal of Nanoscience and Nanotechnology, 2019, 19, 2130-2137.	0.9	13
29	A new approach in functionalization of carbon nanoparticles for optoelectronically relevant carbon dots and beyond. Carbon, 2019, 141, 553-560.	5.4	36
30	Carbon dot incorporated multi-walled carbon nanotube coated filters for bacterial removal and inactivation. RSC Advances, 2018, 8, 8292-8301.	1.7	17
31	Synergistic photoactivated antimicrobial effects of carbon dots combined with dye photosensitizers. International Journal of Nanomedicine, 2018, Volume 13, 8025-8035.	3.3	44
32	Systematic Comparison of Carbon Dots from Different Preparationsâ€”Consistent Optical Properties and Photoinduced Redox Characteristics in Visible Spectrum and Structural and Mechanistic Implications. Journal of Physical Chemistry C, 2018, 122, 21667-21676.	1.5	34
33	Carbonâ€“TiO₂ hybrid dots in different configurations â€“ optical properties, redox characteristics, and mechanistic implications. New Journal of Chemistry, 2018, 42, 10798-10806.	1.4	10
34	Zero-Dimensional Carbon Allotropesâ€”Carbon Nanoparticles Versus Fullerenes in Functionalization by Electronic Polymers for Different Optical and Redox Properties. ACS Omega, 2018, 3, 5685-5691.	1.6	18
35	Highâ€Performance Red/Nearâ€IR Carbon Dots as Fluorescence Probes for Tumor Imaging In Vivo. ChemistrySelect, 2018, 3, 6374-6381.	0.7	13
36	Towards nanostructured boron nitride films. Journal of Materials Science: Materials in Electronics, 2017, 28, 9048-9055.	1.1	2

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37	Correlation of carbon dots' light-activated antimicrobial activities and fluorescence quantum yield. RSC Advances, 2017, 7, 30177-30184.	1.7	68
38	Carbon Dotsâ€™ Antiviral Functions Against Noroviruses. Scientific Reports, 2017, 7, 519.	1.6	84
39	Boron Nitride Nanosheet-Anchored Pdâ€“Fe Coreâ€“Shell Nanoparticles as Highly Efficient Catalysts for Suzukiâ€“Miyaura Coupling Reactions. ACS Applied Materials & Interfaces, 2017, 9, 2469-2476.	4.0	73
40	Preparation and optical properties of magnetic carbon/iron oxide hybrid dots. RSC Advances, 2017, 7, 41304-41310.	1.7	17
41	Characteristic Excitation Wavelength Dependence of Fluorescence Emissions in Carbon â€œQuantumâ€• Dots. Journal of Physical Chemistry C, 2017, 121, 28180-28186.	1.5	93
42	Modified facile synthesis for quantitatively fluorescent carbon dots. Carbon, 2017, 122, 389-394.	5.4	63
43	Hostâ€“guest carbon dots as high-performance fluorescence probes. Journal of Materials Chemistry C, 2017, 5, 6328-6335.	2.7	28
44	Antibacterial effects of carbon dots in combination with other antimicrobial reagents. PLoS ONE, 2017, 12, e0185324.	1.1	75
45	Steady-state and time-resolved fluorescence studies on interactions of carbon â€œquantumâ€•dots with nitrotoluenes. Inorganica Chimica Acta, 2017, 468, 300-307.	1.2	22
46	Visible-Light-Activated Bactericidal Functions of Carbon â€œQuantumâ€•Dots. ACS Applied Materials & Interfaces, 2016, 8, 10761-10766.	4.0	206
47	Functionalization of Carbon Nanoparticles and Defunctionalizationâ€”Toward Structural and Mechanistic Elucidation of Carbon â€œQuantumâ€•Dots. Journal of Physical Chemistry C, 2016, 120, 25604-25611.	1.5	60
48	Photoexcited state properties of carbon dots from thermally induced functionalization of carbon nanoparticles. Journal of Materials Chemistry C, 2016, 4, 10554-10561.	2.7	37
49	Enhanced fluorescence properties of carbon dots in polymer films. Journal of Materials Chemistry C, 2016, 4, 6967-6974.	2.7	74
50	Aqueous compatible boron nitride nanosheets for high-performance hydrogels. Nanoscale, 2016, 8, 4260-4266.	2.8	55
51	Functionalized carbon nanoparticles: Syntheses and applications in optical bioimaging and energy conversion. Coordination Chemistry Reviews, 2016, 320-321, 66-81.	9.5	122
52	Boron Nitride Nanomaterials for Thermal Management Applications. ChemPhysChem, 2015, 16, 1339-1346.	1.0	119
53	Host-Guest Carbon Dots for Enhanced Optical Properties and Beyond. Scientific Reports, 2015, 5, 12354.	1.6	42
54	Carbon dioxide photoconversion driven by visible-light excitation of small carbon nanoparticles in various configurations. Chemical Physics Letters, 2015, 634, 122-128.	1.2	18

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55	Carbon Quantum Dots and Applications in Photocatalytic Energy Conversion. ACS Applied Materials & Interfaces, 2015, 7, 8363-8376.	4.0	613
56	Carbon â€œQuantumâ€•Dots for Fluorescence Labeling of Cells. ACS Applied Materials & Interfaces, 2015, 7, 19439-19445.	4.0	149
57	Carbon nanotube-assisted capturing of bacterial pathogens. RSC Advances, 2015, 5, 91246-91253.	1.7	4
58	Toward Structurally Defined Carbon Dots as Ultracompact Fluorescent Probes. ACS Nano, 2014, 8, 4522-4529.	7.3	218
59	Electroluminescence of carbon â€˜quantumâ€™ dots â€“ From materials to devices. Chemical Physics Letters, 2014, 613, 40-44.	1.2	27
60	Super-resolution fluorescence imaging of biocompatible carbon dots. Nanoscale, 2014, 6, 8617.	2.8	97
61	Visible-Light Photoconversion of Carbon Dioxide into Organic Acids in an Aqueous Solution of Carbon Dots. Langmuir, 2014, 30, 8631-8636.	1.6	67
62	Carbon-based quantum dots for fluorescence imaging of cells and tissues. RSC Advances, 2014, 4, 10791.	1.7	298
63	Facile fabrication of ultrathin graphene papers for effective electromagnetic shielding. Journal of Materials Chemistry C, 2014, 2, 5057-5064.	2.7	159
64	Photoactivatable carbon nanodots for cancer therapy. Applied Physics Letters, 2013, 103, .	1.5	44
65	Versatility with carbon dots â€“ from overcooked BBQ to brightly fluorescent agents and photocatalysts. RSC Advances, 2013, 3, 15604.	1.7	108
66	Carbon â€œquantumâ€•dots for optical bioimaging. Journal of Materials Chemistry B, 2013, 1, 2116.	2.9	708
67	Effect of Injection Routes on the Biodistribution, Clearance, and Tumor Uptake of Carbon Dots. ACS Nano, 2013, 7, 5684-5693.	7.3	332
68	Photoluminescence Properties of Graphene versus Other Carbon Nanomaterials. Accounts of Chemical Research, 2013, 46, 171-180.	7.6	693
69	Light-weight nanocomposite materials with enhanced thermal transport properties. Nanotechnology Reviews, 2012, 1, 363-376.	2.6	22
70	Facile and Effective Post-Production Separation of Single-Walled Carbon Nanotubes with Paired Aromatic Molecules: A Molecular Tweezers Approach. Journal of Physical Chemistry C, 2012, 116, 6800-6804.	1.5	11
71	Efficient Fluorescence Quenching in Carbon Dots by Surface-Doped Metals - Disruption of Excited State Redox Processes and Mechanistic Implications. Langmuir, 2012, 28, 16141-16147.	1.6	86
72	Competitive Performance of Carbon â€œQuantumâ€•Dots in Optical Bioimaging. Theranostics, 2012, 2, 295-301.	4.6	167

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73	Polymer/carbon nanocomposites for enhanced thermal transport properties â€“ carbon nanotubes versus graphene sheets as nanoscale fillers. Journal of Materials Chemistry, 2012, 22, 17133.	6.7	77
74	Polymer/Boron Nitride Nanocomposite Materials for Superior Thermal Transport Performance. Angewandte Chemie - International Edition, 2012, 51, 6498-6501.	7.2	356
75	Carbon Nanoparticles as Visible-Light Photocatalysts for Efficient CO₂ Conversion and Beyond. Journal of the American Chemical Society, 2011, 133, 4754-4757.	6.6	546
76	Thermal Conductive Materials Based on Carbon Nanotubes and Graphene Nanosheets. World Scientific Series on Carbon Nanoscience, 2011, , 755-786.	0.1	3
77	Reverse Sternâ€“Volmer behavior for luminescence quenching in carbon nanoparticles. Canadian Journal of Chemistry, 2011, 89, 104-109.	0.6	37
78	Fluorinated Templates for Energy-Related Nanomaterials and Applications. ACS Symposium Series, 2011, , 103-125.	0.5	0
79	Toward quantitatively fluorescent carbon-based â€œquantumâ€•dots. Nanoscale, 2011, 3, 2023.	2.8	264
80	Carbon Nanoparticles as Chromophores for Photon Harvesting and Photoconversion. ChemPhysChem, 2011, 12, 3604-3608.	1.0	64
81	Carbon dots of different composition and surface functionalization: cytotoxicity issues relevant to fluorescence cell imaging. Experimental Biology and Medicine, 2011, 236, 1231-1238.	1.1	152
82	Bandgapâ€Like Strong Fluorescence in Functionalized Carbon Nanoparticles. Angewandte Chemie - International Edition, 2010, 49, 5310-5314.	7.2	549
83	Preparation of Bulk¹³C-Enriched Graphene Materials. Journal of Nanomaterials, 2010, 2010, 1-5.	1.5	20
84	CYTOTOXICITY EVALUATIONS OF FLUORESCENT CARBON NANOPARTICLES. Nano LIFE, 2010, 01, 153-161.	0.6	35
85	Cell-penetration efficiency of PEGylated multi-walled carbon nanotubes is dependent on cell types. , 2010, , .		0
86	Advances in Bioapplications of Carbon Nanotubes. Advanced Materials, 2009, 21, 139-152.	11.1	348
87	Carbon Dots for Optical Imaging in Vivo. Journal of the American Chemical Society, 2009, 131, 11308-11309.	6.6	1,341
88	Photoinduced electron transfers with carbon dots. Chemical Communications, 2009, , 3774.	2.2	687
89	Carbon Dots as Nontoxic and High-Performance Fluorescence Imaging Agents. Journal of Physical Chemistry C, 2009, 113, 18110-18114.	1.5	829
90	Doped Carbon Nanoparticles as a New Platform for Highly Photoluminescent Dots. Journal of Physical Chemistry C, 2008, 112, 18295-18298.	1.5	288

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91	Magnetotransport in transparent single-wall carbon nanotube networks. Physical Review B, 2007, 76, .	1.1	34
92	Carbon Dots for Multiphoton Bioimaging. Journal of the American Chemical Society, 2007, 129, 11318-11319.	6.6	1,968
93	Functionalized carbon nanotubes for polymeric nanocomposites. Journal of Materials Chemistry, 2007, 17, 1143.	6.7	153
94	Quantum-Sized Carbon Dots for Bright and Colorful Photoluminescence. Journal of the American Chemical Society, 2006, 128, 7756-7757.	6.6	4,049
95	Preparation, Characterization, and Evaluation of Immuno Carbon Nanotubes. Mikrochimica Acta, 2006, 152, 249-254.	2.5	13
96	Poly(N-vinyl carbazole)-functionalized single-walled carbon nanotubes: Synthesis, characterization, and nanocomposite thin films. Polymer, 2005, 46, 8634-8640.	1.8	48
97	Polymeric Nanoparticles from Rapid Expansion of Supercritical Fluid Solution. Chemistry - A European Journal, 2005, 11, 1366-1373.	1.7	74
98	Metal-coated nanoscale TiO2 catalysts for enhanced CO2 photoreduction. Green Chemistry, 2005, 7, 667.	4.6	88
99	Functionalization of Carbon Nanotubes with Derivatized Polyimide. Macromolecules, 2005, 38, 7670-7675.	2.2	85
100	Solubilization of boron nitride nanotubes. Chemical Communications, 2005, , 3670.	2.2	188
101	Polymeric Nanofibers from Rapid Expansion of Supercritical Solution. Industrial & Engineering Chemistry Research, 2005, 44, 4594-4598.	1.8	45
102	Selective Interactions of Porphyrins with Semiconducting Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2004, 126, 1014-1015.	6.6	426
103	Improving photoreduction of CO2 with homogeneously dispersed nanoscale TiO2 catalysts. Chemical Communications, 2004, , 1234.	2.2	74
104	Functionalized Carbon Nanotubes with Tethered Pyrenes:â€‰ Synthesis and Photophysical Properties. Journal of Physical Chemistry B, 2004, 108, 11447-11453.	1.2	76
105	Advances toward bioapplications of carbon nanotubes. Journal of Materials Chemistry, 2004, 14, 527.	6.7	827
106	Diminished Band-Gap Transitions of Single-Walled Carbon Nanotubes in Complexation with Aromatic Molecules. Journal of the American Chemical Society, 2004, 126, 10234-10235.	6.6	101
107	Concentration and medium dependencies in optical limiting of organic dyes. Physical Chemistry Chemical Physics, 2004, 6, 703.	1.3	14
108	Protein-Protected Nanoparticles from Rapid Expansion of Supercritical Solution into Aqueous Solution. Journal of Physical Chemistry B, 2002, 106, 11178-11182.	1.2	71

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109	Luminescence anisotropy of functionalized carbon nanotubes in solution. Chemical Physics Letters, 2002, 351, 349-353.	1.2	57
110	Functionalized Carbon Nanotubes:â€‰ Properties and Applications. Accounts of Chemical Research, 2002, 35, 1096-1104.	7.6	1,560
111	Organization of Polymers onto Carbon Nanotubes:â€‰ A Route to Nanoscale Assembly. Nano Letters, 2001, 1, 423-427.	4.5	170
112	Defunctionalization of Functionalized Carbon Nanotubes. Nano Letters, 2001, 1, 439-441.	4.5	191
113	Preparation of Silver Nanoparticles via Rapid Expansion of Water in Carbon Dioxide Microemulsion into Reductant Solution. Langmuir, 2001, 17, 5707-5710.	1.6	141
114	Strong Luminescence of Solubilized Carbon Nanotubes. Journal of the American Chemical Society, 2000, 122, 5879-5880.	6.6	729
115	Optical limiting properties of mono- and multiple-functionalized fullerene derivatives. Journal of Chemical Physics, 2000, 112, 4221-4230.	1.2	39
116	Nanoscale metal sulfides in perfluorinated ionomer membranes. Journal of Materials Chemistry, 2000, 10, 2081-2084.	6.7	24
117	Photophysical and Electron-Transfer Properties of Mono- and Multiple-Functionalized Fullerene Derivatives. Journal of Physical Chemistry B, 2000, 104, 4625-4632.	1.2	58
118	Fullerene-Centered Macromolecules as Unimolecular Micellar Structures. Chemistry of Materials, 2000, 12, 2073-2075.	3.2	21
119	Preparations of Nickel, Cobalt, and Iron Nanoparticles through the Rapid Expansion of Supercritical Fluid Solutions (RESS) and Chemical Reduction. Chemistry of Materials, 1999, 11, 7-9.	3.2	131
120	Photoinduced Intramolecular nâ^'Ï€* Electron Transfer in Aminofullerene Derivatives. Journal of Physical Chemistry A, 1998, 102, 7580-7590.	1.1	37
121	Photophysical and Nonlinear Optical Properties of [60]Fullerene Derivatives. Journal of Physical Chemistry A, 1998, 102, 5520-5528.	1.1	76
122	Similar Behavior Between Polyfullerenes and Charged Polymers. Extreme Polyelectrolyte Effects in Gel Permeation Chromatography Studies. Fullerenes, Nanotubes, and Carbon Nanostructures, 1997, 5, 1579-1591.	0.6	5
123	Non-linear absorptions in pendant [60]fullereneâ€“polystyrene polymers. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 1965-1969.	1.7	22
124	Preparation and Characterization of Fullereneâ^'Styrene Copolymers. Macromolecules, 1996, 29, 8441-8448.	2.2	67
125	Solute and Solvent Dependencies of Intermolecular Interactions in Different Density Regions in Supercritical Fluids. A Generalization of the Threeâ€Ðensityâ€Region Solvation Mechanism. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1995, 99, 976-984.	0.9	36
126	Application of Paramagnetic Relaxation Reagents in Characterization of Fullerene Derivatives. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1995, 99, 1046-1048.	0.9	3

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127	Fullerene-Styrene Random Copolymers. Novel Optical Properties. Macromolecules, 1995, 28, 3744-3746.	2.2	149
128	A PHOTOPHYSICAL STUDY OF SOLVATOCHROMIC PROBE 6â€PROPIONYLâ€Z(N,Nâ€DIMETHYLAMINO)NAPHTHALENE (PRODAN) IN SOLUTION. Photochemistry and Photobiology, 1993, 58, 499-505.	1.3	55
129	Electronic Structure, Photophysics, and Photochemistry of Polysilanes. ACS Symposium Series, 1993, , 131-154.	0.5	2
130	Photoactivated carbon dots inducing bacterial functional and molecular alterations. Materials Advances, 0, , .	2.6	1