

Yong-Zhen Yang

List of Publications by Year in descending order

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116
papers

3,407
citations

126907

33
h-index

175258

52
g-index

117
all docs

117
docs citations

117
times ranked

4376
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescent probes for "highly sensitive detection of Hg ²⁺ and L-cysteine based on nitrogen-doped carbon dots. <i>Talanta</i> , 2016, 152, 288-300.	5.5	156
2	Photoluminescent carbon quantum dots as a directly film-forming phosphor towards white LEDs. <i>Nanoscale</i> , 2016, 8, 8618-8632.	5.6	129
3	Efficient resistance against solid-state quenching of carbon dots towards white light emitting diodes by physical embedding into silica. <i>Carbon</i> , 2018, 126, 426-436.	10.3	109
4	Flexible Paper-like Free-Standing Electrodes by Anchoring Ultrafine SnS ₂ Nanocrystals on Graphene Nanoribbons for High-Performance Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15484-15491.	8.0	102
5	Effect of reaction temperature on structure and fluorescence properties of nitrogen-doped carbon dots. <i>Applied Surface Science</i> , 2016, 387, 1236-1246.	6.1	101
6	Microwave-assisted hydrothermal synthesis of solid-state carbon dots with intensive emission for white light-emitting devices. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8105-8111.	5.5	94
7	Synthesis of N,S-Doped Carbon Quantum Dots for Use in Organic Solar Cells as the ZnO Modifier To Eliminate the Light-Soaking Effect. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2243-2253.	8.0	94
8	A novel robust adsorbent for efficient oil/water separation: Magnetic carbon nanospheres/graphene composite aerogel. <i>Journal of Hazardous Materials</i> , 2020, 392, 122499.	12.4	92
9	Temperature and magnetism bi-responsive molecularly imprinted polymers: Preparation, adsorption mechanism and properties as drug delivery system for sustained release of 5-fluorouracil. <i>Materials Science and Engineering C</i> , 2016, 61, 158-168.	7.3	88
10	Tunable full-color solid-state fluorescent carbon dots for light emitting diodes. <i>Carbon</i> , 2022, 190, 22-31.	10.3	79
11	Synthesis of short-chain passivated carbon quantum dots as the light emitting layer towards electroluminescence. <i>RSC Advances</i> , 2017, 7, 28754-28762.	3.6	77
12	N, B-Codoping Induces High-Efficiency Solid-State Fluorescence and Dual Emission of Yellow/Orange Carbon Dots. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2224-2236.	6.7	76
13	Synthesis of carbon quantum dots by chemical vapor deposition approach for use in polymer solar cell as the electrode buffer layer. <i>Carbon</i> , 2016, 109, 598-607.	10.3	70
14	Carbon dot-based white and yellow electroluminescent light emitting diodes with a record-breaking brightness. <i>Nanoscale</i> , 2018, 10, 11211-11221.	5.6	67
15	Accelerated formation and improved performance of CH ₃ NH ₃ PbI ₃ -based perovskite solar cells via solvent coordination and anti-solvent extraction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4190-4198.	10.3	65
16	3D Carbon Frameworks for Ultrafast Charge/Discharge Rate Supercapacitors with High Energy-Power Density. <i>Nano-Micro Letters</i> , 2021, 13, 8.	27.0	64
17	Water-compatible surface molecularly imprinted polymers with synergy of bi-functional monomers for enhanced selective adsorption of bisphenol A from aqueous solution. <i>Environmental Science: Nano</i> , 2016, 3, 213-222.	4.3	62
18	Investigation on the chirality mechanism of chiral carbon quantum dots derived from tryptophan. <i>RSC Advances</i> , 2019, 9, 3208-3214.	3.6	56

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19	Efficient adsorptive removal of dibenzothiophene by graphene oxide-based surface molecularly imprinted polymer. <i>RSC Advances</i> , 2014, 4, 1469-1475.	3.6	55
20	Direct blending of multicolor carbon quantum dots into fluorescent films for white light emitting diodes with an adjustable correlated color temperature. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1502-1509.	5.5	55
21	Rapid and green synthesis of fluorescent carbon dots from starch for white light-emitting diodes. <i>New Carbon Materials</i> , 2018, 33, 276-288.	6.1	54
22	Ultrahigh Brightness Carbon Dot-Based Blue Electroluminescent LEDs by Host-Guest Energy Transfer Emission Mechanism. <i>Advanced Optical Materials</i> , 2018, 6, 1800181.	7.3	51
23	Reasonable design and sifting of microporous carbon nanosphere-based surface molecularly imprinted polymer for selective removal of phenol from wastewater. <i>Chemosphere</i> , 2020, 251, 126376.	8.2	51
24	Power Conversion Efficiency and Device Stability Improvement of Inverted Perovskite Solar Cells by Using a ZnO:PFN Composite Cathode Buffer Layer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18410-18417.	8.0	50
25	An Efficient Synthesis and Photoelectric Properties of Green Carbon Quantum Dots with High Fluorescent Quantum Yield. <i>Nanomaterials</i> , 2020, 10, 82.	4.1	50
26	Carbon Dots: From Intense Absorption in Visible Range to Excitation-Independent and Excitation-Dependent Photoluminescence. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 922-929.	2.1	47
27	Fluorescent linear CO ₂ -derived poly(hydroxyurethane) for cool white LED. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4892-4898.	5.5	44
28	Rapid microwave-assisted synthesis of highly luminescent nitrogen-doped carbon dots for white light-emitting diodes. <i>Optical Materials</i> , 2017, 73, 319-329.	3.6	42
29	Solid-state fluorescent carbon dots: quenching resistance strategies, high quantum efficiency control, multicolor tuning, and applications. <i>Materials Advances</i> , 2020, 1, 3122-3142.	5.4	39
30	The synthesis of green fluorescent carbon dots for warm white LEDs. <i>RSC Advances</i> , 2018, 8, 19585-19595.	3.6	37
31	Magnetic thermosensitive core/shell microspheres: synthesis, characterization and performance in hyperthermia and drug delivery. <i>RSC Advances</i> , 2014, 4, 46806-46812.	3.6	35
32	Preparation of N-doped carbon dots based on starch and their application in white LED. <i>Optical Materials</i> , 2018, 86, 530-536.	3.6	35
33	Fluorescent polyvinyl alcohol films based on nitrogen and sulfur co-doped carbon dots towards white light-emitting devices. <i>New Journal of Chemistry</i> , 2016, 40, 8710-8716.	2.8	33
34	Enhanced-fluorescent imaging and targeted therapy of liver cancer using highly luminescent carbon dots-conjugated foliate. <i>Materials Science and Engineering C</i> , 2020, 116, 111233.	7.3	33
35	One-step hydrothermal synthesis of fluorescence carbon quantum dots with high product yield and quantum yield. <i>Nanotechnology</i> , 2019, 30, 085406.	2.6	32
36	Porous Carbon Microspheres: An Excellent Support To Prepare Surface Molecularly Imprinted Polymers for Selective Removal of Dibenzothiophene in Fuel Oil. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 1710-1719.	3.7	31

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37	Magnetic carbon nanospheres: Synthesis, characterization, and adsorbability towards quinoline from coking wastewater. <i>Chemical Engineering Journal</i> , 2020, 382, 122995.	12.7	31
38	Low-Temperature Hydrothermal Synthesis of Green Luminescent Carbon Quantum Dots (CQD), and Optical Properties of Blends of the CQD with Poly(3-hexylthiophene). <i>Journal of Electronic Materials</i> , 2015, 44, 3436-3443.	2.2	30
39	Folic acid-conjugated magnetic ordered mesoporous carbon nanospheres for doxorubicin targeting delivery. <i>Materials Science and Engineering C</i> , 2019, 104, 109939.	7.3	30
40	Surface molecularly imprinted polymers grafted on ordered mesoporous carbon nanospheres for fuel desulfurization. <i>RSC Advances</i> , 2016, 6, 12504-12513.	3.6	27
41	A fluorescein-centered polymer as a phosphor for fabricating pure white light-emitting diodes. <i>Materials Horizons</i> , 2018, 5, 932-938.	12.2	27
42	An acid induction strategy to construct an ultralight and durable amino-functionalized graphene oxide aerogel for enhanced quinoline pollutants extraction from coking wastewater. <i>Chemical Engineering Journal</i> , 2021, 412, 128686.	12.7	27
43	External load-dependent degradation of P3HT:PC ₆₁ BM solar cells: behavior, mechanism, and method of suppression. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10010-10020.	10.3	26
44	Study on dispersion of reduced graphene oxide on physical performance of Polyvinylidene fluoride composites by Hansen solubility parameters. <i>Colloid and Polymer Science</i> , 2019, 297, 213-224.	2.1	26
45	Synthesis of nano onion-like fullerenes by chemical vapor deposition using an iron catalyst supported on sodium chloride. <i>Journal of Nanoparticle Research</i> , 2011, 13, 1979-1986.	1.9	25
46	Thermo-sensitively and magnetically ordered mesoporous carbon nanospheres for targeted controlled drug release and hyperthermia application. <i>Materials Science and Engineering C</i> , 2018, 84, 21-31.	7.3	25
47	Green-emissive carbon quantum dots with high fluorescence quantum yield: Preparation and cell imaging. <i>Frontiers of Materials Science</i> , 2021, 15, 253-265.	2.2	24
48	Fluorescent Carbon Quantum Dots as Single Light Converter for White LEDs. <i>Journal of Electronic Materials</i> , 2016, 45, 2784-2788.	2.2	23
49	Facile Preparation of Stable Solid-State Carbon Quantum Dots with Multi-Peak Emission. <i>Nanomaterials</i> , 2020, 10, 303.	4.1	23
50	Ni@Ni ₃ N Embedded on Three-Dimensional Carbon Nanosheets for High-Performance Lithium/Sodium Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48536-48545.	8.0	23
51	Functionalized silver nanoparticles with graphene quantum dots shell layer for effective antibacterial action. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	22
52	Improving performance of perovskite solar cells based on ZnO nanorods via rod-length control and sulfidation treatment. <i>Materials Science in Semiconductor Processing</i> , 2020, 117, 105205.	4.0	22
53	Magnetic porous carbon microspheres synthesized by simultaneous activation and magnetization for removing methylene blue. <i>Journal of Porous Materials</i> , 2017, 24, 341-353.	2.6	21
54	Growth and characterization of flower-like Ag/ZnO heterostructure composites with enhanced photocatalytic performance. <i>Journal of Materials Science</i> , 2014, 49, 2347-2354.	3.7	20

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55	Optimal nitrogen and phosphorus codoping carbon dots towards white light-emitting device. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	20
56	Molecularly imprinted polymers on the surface of porous carbon microspheres for capturing dibenzothiophene. <i>Mikrochimica Acta</i> , 2016, 183, 1153-1160.	5.0	19
57	Towards understanding the initial performance improvement of PbS quantum dot solar cells upon short-term air exposure. <i>RSC Advances</i> , 2018, 8, 15149-15157.	3.6	19
58	Ultrafast synthesis of magnetic hollow carbon nanospheres for the adsorption of quinoline from coking wastewater. <i>New Journal of Chemistry</i> , 2020, 44, 7490-7500.	2.8	18
59	Fe-encapsulating carbon nano onionlike fullerenes from heavy oil residue. <i>Journal of Materials Research</i> , 2008, 23, 1393-1397.	2.6	17
60	Synthesis of nano onion-like fullerenes by using Fe/Al ₂ O ₃ as catalyst by chemical vapor deposition. <i>Science Bulletin</i> , 2009, 54, 137-141.	1.7	17
61	Enhanced device performance and stability of perovskite solar cells with low-temperature ZnO/TiO ₂ bilayered electron transport layers. <i>RSC Advances</i> , 2018, 8, 23019-23026.	3.6	17
62	Orange-emissive carbon dot phosphors for warm white light-emitting diodes with high color rendering index. <i>Optical Materials</i> , 2020, 109, 110346.	3.6	17
63	Preparation of nitrogen-doped hollow carbon nanosphere/graphene composite aerogel for efficient removal of quinoline from wastewater. <i>Journal of Hazardous Materials</i> , 2021, 417, 126160.	12.4	17
64	Solar-driven simultaneous desalination and power generation enabled by graphene oxide nanoribbon papers. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9184-9194.	10.3	17
65	Ion-Imprinted Polymers Modified Sensor for Electrochemical Detection of Cu ²⁺ . <i>Nano</i> , 2018, 13, 1850140.	1.0	16
66	Zinc Oxide Coated Carbon Dot Nanoparticles as Electron Transport Layer for Inverted Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 11388-11397.	5.1	16
67	Influence of surface modification of carbon nanotube on microstructures and properties of polyamide 66/multiwalled carbon nanotube composites. <i>Polymer Composites</i> , 2013, 34, 656-664.	4.6	15
68	Functional monomer screening and preparation of dibenzothiophene-imprinted polymers on the surface of carbon microsphere. <i>Monatshefte für Chemie</i> , 2015, 146, 449-458.	1.8	15
69	A targeted drug delivery system based on carbon nanotubes loaded with lobaplatin toward liver cancer cells. <i>Journal of Materials Research</i> , 2018, 33, 2565-2575.	2.6	15
70	Simultaneous Performance and Stability Improvement of Ternary Polymer Solar Cells Enabled by Modulating the Molecular Packing of Acceptors. <i>Solar Rrl</i> , 2020, 4, 2000374.	5.8	15
71	Facile and Rapid Synthesis of Yellow-Emission Carbon Dots for White Light-Emitting Diodes. <i>Journal of Electronic Materials</i> , 2018, 47, 7497-7504.	2.2	14
72	Selective adsorption and separation of dibenzothiophene by molecularly imprinted polymer on the surface of porous magnetic carbon nanospheres. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 14-22.	2.1	14

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73	Orange-emissive carbon quantum dots for ligand-directed Golgi apparatus-targeting and <i>in vivo</i> imaging. <i>Biomaterials Science</i> , 2022, 10, 4345-4355.	5.4	14
74	Surface Morphology Evolution Mechanisms of InGaN/GaN Multiple Quantum Wells with Mixture N ₂ /H ₂ -Grown GaN Barrier. <i>Nanoscale Research Letters</i> , 2017, 12, 354.	5.7	13
75	Revealing the Interfacial Photoreduction of MoO ₃ with P3HT from the Molecular Weight-Dependent α -Burn-In Degradation of P3HT:PC ₆₁ BM Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 9714-9723.	5.1	13
76	Recognition of 5-Fluorouracil by thermosensitive magnetic surface molecularly imprinted microspheres designed using a computational approach. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45468.	2.6	12
77	Construction of Carbon Microspheres-Based Silane Melamine Phosphate Hybrids for Flame Retardant Poly(ethylene Terephthalate). <i>Polymers</i> , 2019, 11, 545.	4.5	12
78	Thermal Stability and Surface Chemistry Evolution of Oxidized Carbon Microspheres. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014, 22, 670-678.	2.1	11
79	Enhancing the flame retardant of polyethylene terephthalate (PET) fiber via incorporation of multi-walled carbon nanotubes based phosphorylated chitosan. <i>Journal of the Textile Institute</i> , 2018, 109, 871-878.	1.9	11
80	Antitumor effects of carbon nanotube-drug complex against human breast cancer cells. <i>Experimental and Therapeutic Medicine</i> , 2018, 16, 1103-1110.	1.8	11
81	Robust negative differential resistance and abnormal magnetoresistance effects in heteroatom-substituted zigzag Γ^3 -graphyne nanoribbon homojunctions. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1359-1369.	5.5	11
82	Hyperbranched Fractal Nanocarbons for Bright Photoluminescence in Solid State. <i>Advanced Optical Materials</i> , 2019, 7, 1900659.	7.3	11
83	Rapid synthesis of nitrogen doped carbon dots with green fluorescent for bio-imaging. <i>Optical Materials</i> , 2019, 98, 109486.	3.6	11
84	Preparation, Properties, and Application of Graphene-Based Materials in Tissue Engineering Scaffolds. <i>Tissue Engineering - Part B: Reviews</i> , 2022, 28, 1121-1136.	4.8	11
85	Tailoring perovskite conversion and grain growth by in situ solvent assisted crystallization and compositional variation for highly efficient perovskite solar cells. <i>Organic Electronics</i> , 2019, 69, 208-215.	2.6	10
86	The effects of surface modifications of multiwalled carbon nanotubes on their dispersibility in different solvents and poly(ether ether ketone). <i>Journal of Materials Research</i> , 2014, 29, 2625-2633.	2.6	9
87	Thermoresponsive hollow magnetic microspheres with hyperthermia and controlled release properties. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	9
88	P3HT/Dodecylamine Functioned Carbon Microspheres Composite Films for Polymer Solar Cells. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 549-556.	2.1	9
89	The interfacial degradation mechanism of polymer:fullerene bis-adduct solar cells and their stability improvement. <i>Materials Advances</i> , 2020, 1, 1307-1317.	5.4	9
90	Preparation and characterization of thermosensitive core/shell microgels with carbon microsphere cores. <i>Journal of Materials Research</i> , 2014, 29, 1153-1161.	2.6	8

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91	Size-dependent magnetic order and giant magnetoresistance in organic titanium-benzene multidecker cluster. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1902-1908.	2.8	8
92	Clustering-induced White Light Emission from Carbonized Polymer Dots. <i>Advanced Photonics Research</i> , 2021, 2, 2000161.	3.6	8
93	The spin-filter capability and spin-reversal effect of multidecker iron-borazine sandwich cluster. <i>Applied Physics Letters</i> , 2012, 101, 102405.	3.3	7
94	Synthesis and optical property of P3HT/carbon microsphere composite film. <i>Journal of Materials Research</i> , 2013, 28, 998-1003.	2.6	7
95	Synthesis and optical properties of composite films from P3HT and sandwich-like Ag-Ag nanoparticles. <i>RSC Advances</i> , 2015, 5, 79860-79867.	3.6	7
96	Preparation and characterization of 5-fluorouracil surface-imprinted thermosensitive magnetic microspheres. <i>Monatshefte für Chemie</i> , 2015, 146, 441-447.	1.8	7
97	Effect of reduction methods and functionalization on the dispersion of graphene in epoxy. <i>Journal of Dispersion Science and Technology</i> , 2020, 41, 297-306.	2.4	7
98	Controllable Photoelectric Properties of Carbon Dots and Their Application in Organic Solar Cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022, 40, 7-20.	3.8	7
99	Influence of graphitization degree of carbon microspheres on properties of PET flame retardant. <i>Polymer Engineering and Science</i> , 2018, 58, 1399-1408.	3.1	6
100	Spin-filtering and tunneling magnetoresistance effects in 6,6,12-graphyne-based molecular magnetic tunnel junctions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2734-2742.	2.8	6
101	Pulse electrochemical synthesis of polypyrrole/graphene oxide@graphene aerogel for high-performance supercapacitor. <i>RSC Advances</i> , 2020, 10, 11966-11970.	3.6	6
102	Functionalized multiwalled carbon nanotubes by loading phosphorylated chitosan. <i>High Performance Polymers</i> , 2018, 30, 1036-1047.	1.8	5
103	Preparation and self-assembly of chitosan/carbon microsphere composite. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 454-458.	1.0	4
104	Highly stable yellow-emitting fluorescent film based on graphene quantum dots for white laser-emitting devices. <i>Journal of Luminescence</i> , 2021, 238, 118275.	3.1	4
105	Research Progress in the Synthesis of Targeting Organelle Carbon Dots and Their Applications in Cancer Diagnosis and Treatment. <i>Journal of Biomedical Nanotechnology</i> , 2021, 17, 1891-1916.	1.1	4
106	Spin-coated P3HT:Aminated carbon microsphere composite films for polymer solar cells. <i>Journal of Materials Research</i> , 2014, 29, 492-500.	2.6	3
107	Application advances of carbon quantum dots in optoelectronic devices. <i>Chinese Science Bulletin</i> , 2019, 64, 1441-1455.	0.7	3
108	Effect of Surfactant Polyvinyl Pyrrolidone on the Properties of Microporous Carbon Nanospheres Reinforced Magnesium Matrix Composites. <i>Nanomaterials</i> , 2020, 10, 2281.	4.1	2

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109	Surface Modification of Vapor-grown Carbon Nanofibers in Radio Frequency Plasma. Chinese Journal of Chemical Physics, 2007, 20, 759-762.	1.3	1
110	Solvothermal synthesis and ferromagnetic property of bamboo-shoot-like oriented carbon micromaterials. Science Bulletin, 2010, 55, 3838-3841.	1.7	1
111	Optical properties of the composite film from P3HT and hydrothermally synthesized porous carbon nanospheres. Journal of Materials Research, 2015, 30, 1599-1610.	2.6	1
112	Spectroscopic studies of bovine serum albumin adsorbed onto magnetic "thermosensitive carbon microspheres. Luminescence, 2016, 31, 1461-1467.	2.9	1
113	In Vitro Cytotoxicity and Antitumor Activity of Dual-Targeting Drug Delivery System Based on Modified Magnetic Carbon by Folate. Journal of Nanomaterials, 2020, 2020, 1-11.	2.7	1
114	Instant Growth of the Secondary Carbon Fibers on a Matrix Carbon Fiber by Chemical Vapor Deposition. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 49-53.	2.1	0
115	Deposition of Ag nanoparticles on carbon microspheres surface: Evaluation of structures, electrochemical and optical properties. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 743-749.	1.0	0
116	Clustering-induced White Light Emission from Carbonized Polymer Dots. Advanced Photonics Research, 2021, 2, 2170016.	3.6	0