

Wentao Wang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,270
citations

331259

21
h-index

414034

32
g-index

40
all docs

40
docs citations

40
times ranked

1950
citing authors

#	ARTICLE	IF	CITATIONS
1	Strategies for interfacing inorganic nanocrystals with biological systems based on polymer-coating. <i>Chemical Society Reviews</i> , 2015, 44, 193-227.	18.7	189
2	A Multifunctional Polymer Combining the Imidazole and Zwitterion Motifs as a Biocompatible Compact Coating for Quantum Dots. <i>Journal of the American Chemical Society</i> , 2015, 137, 14158-14172.	6.6	112
3	Biomimetic corrugated silicon nanocone arrays for self-cleaning antireflection coatings. <i>Nano Research</i> , 2010, 3, 520-527.	5.8	99
4	Photoligation of an Amphiphilic Polymer with Mixed Coordination Provides Compact and Reactive Quantum Dots. <i>Journal of the American Chemical Society</i> , 2015, 137, 5438-5451.	6.6	91
5	Highly effective and reproducible surface-enhanced Raman scattering substrates based on Ag pyramidal arrays. <i>Nano Research</i> , 2013, 6, 159-166.	5.8	75
6	Design of a Multi-Dopamine-Modified Polymer Ligand Optimally Suited for Interfacing Magnetic Nanoparticles with Biological Systems. <i>Langmuir</i> , 2014, 30, 6197-6208.	1.6	63
7	Engineering the Bio-Nano Interface Using a Multifunctional Coordinating Polymer Coating. <i>Accounts of Chemical Research</i> , 2020, 53, 1124-1138.	7.6	51
8	Multifunctional and High Affinity Polymer Ligand that Provides Bio-Orthogonal Coating of Quantum Dots. <i>Bioconjugate Chemistry</i> , 2016, 27, 2024-2036.	1.8	50
9	Characterization of the Ligand Capping of Hydrophobic CdSe-ZnS Quantum Dots Using NMR Spectroscopy. <i>Chemistry of Materials</i> , 2018, 30, 225-238.	3.2	49
10	Modification of Poly(maleic anhydride)-Based Polymers with H ₂ N-R Nucleophiles: Addition or Substitution Reaction?. <i>Bioconjugate Chemistry</i> , 2019, 30, 871-880.	1.8	45
11	Controlling the spectroscopic properties of quantum dots via energy transfer and charge transfer interactions: Concepts and applications. <i>Nano Today</i> , 2016, 11, 98-121.	6.2	43
12	Self-Assembled Gold Nanoparticle-Fluorescent Protein Conjugates as Platforms for Sensing Thiolate Compounds via Modulation of Energy Transfer Quenching. <i>Bioconjugate Chemistry</i> , 2017, 28, 678-687.	1.8	38
13	Enhanced Colloidal Stability of Various Gold Nanostructures Using a Multicoordinating Polymer Coating. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22901-22913.	1.5	32
14	Elucidating the Role of Surface Coating in the Promotion or Prevention of Protein Corona around Quantum Dots. <i>Bioconjugate Chemistry</i> , 2019, 30, 2469-2480.	1.8	28
15	Self-Assembled Monolayer Islands Masked Chemical Etching for Broad-Band Antireflective Silicon Surfaces. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1989-1995.	1.5	27
16	A Versatile Coordinating Ligand for Coating Semiconductor, Metal, and Metal Oxide Nanocrystals. <i>Chemistry of Materials</i> , 2018, 30, 7269-7279.	3.2	26
17	Characterizing the Brownian Diffusion of Nanocolloids and Molecular Solutions: Diffusion-Ordered NMR Spectroscopy vs Dynamic Light Scattering. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4631-4650.	1.2	25
18	Tuning the Redox Coupling between Quantum Dots and Dopamine in Hybrid Nanoscale Assemblies. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3388-3399.	1.5	22

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19	Effects of separation distance on the charge transfer interactions in quantum dot-dopamine assemblies. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10108-10117.	1.3	22
20	Intracellular Delivery of Gold Nanocolloids Promoted by a Chemically Conjugated Anticancer Peptide. <i>ACS Omega</i> , 2018, 3, 12754-12762.	1.6	22
21	Langmuir-Blodgett Monolayer Masked Chemical Etching: An Approach to Broadband Antireflective Surfaces. <i>Chemistry of Materials</i> , 2009, 21, 1802-1805.	3.2	21
22	A multifunctional amphiphilic polymer as a platform for surface-functionalizing metallic and other inorganic nanostructures. <i>Faraday Discussions</i> , 2014, 175, 137-151.	1.6	19
23	Compact, Clickable-Quantum Dots Photoligated with Multifunctional Zwitterionic Polymers for Immunofluorescence and <i>In Vivo</i> Imaging. <i>Bioconjugate Chemistry</i> , 2020, 31, 1497-1509.	1.8	19
24	Förster Resonance Energy Transfer between Colloidal CuInS ₂ /ZnS Quantum Dots and Dark Quenchers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1717-1731.	1.5	18
25	Scaling Laws for Polymer Chains Grafted onto Nanoparticles. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700417.	1.1	16
26	The dual-function of lipoic acid groups as surface anchors and sulfhydryl reactive sites on polymer-stabilized QDs and Au nanocolloids. <i>Journal of Chemical Physics</i> , 2019, 151, 164703.	1.2	15
27	Engineering Highly Fluorescent and Colloidally Stable Blue-Emitting CsPbBr ₃ Nanoplatelets Using Polysalt/PbBr ₂ Ligands. <i>Chemistry of Materials</i> , 2022, 34, 4924-4936.	3.2	15
28	A multi-coordinating polymer ligand optimized for the functionalization of metallic nanocrystals and nanorods. <i>Faraday Discussions</i> , 2016, 191, 481-494.	1.6	12
29	Enhanced Uptake of Luminescent Quantum Dots by Live Cells Mediated by a Membrane-Active Peptide. <i>ACS Omega</i> , 2018, 3, 17164-17172.	1.6	12
30	Margatoxin-bound quantum dots as a novel inhibitor of the voltage-gated ion channel Kv1.3. <i>Journal of Neurochemistry</i> , 2017, 140, 404-420.	2.1	10
31	A Multifunctional Contrast Agent for ¹⁹ F-Based Magnetic Resonance Imaging. <i>Bioconjugate Chemistry</i> , 2022, 33, 881-891.	1.8	3
32	Surface-Functionalizing Metal, Metal Oxide and Semiconductor Nanocrystals with a Multi-coordinating Polymer Platform. <i>MRS Advances</i> , 2016, 1, 3741-3747.	0.5	1
33	Multidentate oligomeric ligands to enhance the biocompatibility of iron oxide and other metal nanoparticles. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
34	Understanding the redox coupling between quantum dots and the neurotransmitter dopamine in hybrid self-assemblies. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
35	Design of a multi-coordinating polymer as a platform for functionalizing metal, metal oxide and semiconductor nanocrystals. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
36	Macromol. Chem. Phys. 8/2018. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1870022.	1.1	0

#	ARTICLE	IF	CITATIONS
37	Compact Quantum Dots Photoligated with Multifunctional Zwitterionic Coating for Immunofluorescence and Imaging. , 2021, , .		0
38	Optimizing QDs and Other Inorganic Probes for Imaging and Sensing. , 2017, , .		0
39	Anti-microbial peptide facilitated cytosolic delivery of metallic gold nanomaterials. , 2018, , .		0
40	Förster Resonance Energy Transfer between Colloidal CuInS ₂ /ZnS Quantum Dots and Dark Quenchers. , 0, , .		0