W Russ Algar

List of Publications by Year
in descending order

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28 papers	860 citations	516215 16 h-index	500791 28 g-index
28 all docs	28 docs citations	28 times ranked	1025 citing authors

#	Article	IF	Citations
1	Prototype Smartphone-Based Device for Flow Cytometry with Immunolabeling via Supra-nanoparticle Assemblies of Quantum Dots. ACS Measurement Science Au, 2022, 2, 57-66.	1.9	6
2	A Dendrimer-Based Time-Gated Concentric FRET Configuration for Multiplexed Sensing. ACS Nano, 2022, , .	7.3	9
3	Nearâ€Infraredâ€Emitting Boronâ€Difluorideâ€Curcuminoidâ€Based Polymers Exhibiting Thermally Activated Delayed Fluorescence as Biological Imaging Probes. Angewandte Chemie - International Edition, 2021, 60, 18630-18638.	7.2	56
4	Photoluminescent Nanoparticles for Chemical and Biological Analysis and Imaging. Chemical Reviews, 2021, 121, 9243-9358.	23.0	162
5	Nearâ€Infraredâ€Emitting Boronâ€Difluorideâ€Curcuminoidâ€Based Polymers Exhibiting Thermally Activated Delayed Fluorescence as Biological Imaging Probes. Angewandte Chemie, 2021, 133, 18778-18786.	1.6	8
6	Red-Emissive Cell-Penetrating Polymer Dots Exhibiting Thermally Activated Delayed Fluorescence for Cellular Imaging. Journal of the American Chemical Society, 2021, 143, 13342-13349.	6.6	41
7	Polymer Dots with Enhanced Photostability, Quantum Yield, and Two-Photon Cross-Section using Structurally Constrained Deep-Blue Fluorophores. Journal of the American Chemical Society, 2021, 143, 16976-16992.	6.6	29
8	Dextran Functionalization of Semiconducting Polymer Dots and Conjugation with Tetrameric Antibody Complexes for Bioanalysis and Imaging. ACS Applied Bio Materials, 2020, 3, 432-440.	2.3	16
9	Fully Self-Assembled Silica Nanoparticleâ€“Semiconductor Quantum Dot Supra-Nanoparticles and Immunoconjugates for Enhanced Cellular Imaging by Microscopy and Smartphone Camera. ACS Applied Materials & Interfaces, 2020, 12, 33530-33540.	4.0	20
10	Affinity Immobilization of Semiconductor Quantum Dots and Metal Nanoparticles on Cellulose Paper Substrates. ACS Applied Materials & Interfaces, 2020, 12, 53462-53474.	4.0	9
11	Investigation of the Energy Transfer Mechanism Between Semiconducting Polymer Dots and Organic Dyes. Journal of Physical Chemistry C, 2020, 124, 17387-17400.	1.5	12
12	Heroes or Villains? How Nontraditional Luminescent Materials Do and Do Not Enhance Bioanalysis and Imaging. Chemistry of Materials, 2020, 32, 4863-4883.	3.2	12
13	Yellow fluorescent protein-based label-free tension sensors for monitoring integrin tension. Chemical Communications, 2020, 56, 5556-5559.	2.2	5
14	Dextran-Functionalized Semiconductor Quantum Dot Bioconjugates for Bioanalysis and Imaging. Bioconjugate Chemistry, 2020, 31, 861-874.	1.8	21
15	Color-Tunable Thermally Activated Delayed Fluorescence in Oxadiazole-Based Acrylic Copolymers: Photophysical Properties and Applications in Ratiometric Oxygen Sensing. ACS Applied Materials & Interfaces, 2020, 12, 6525-6535.	4.0	52
16	Comparison of Semiconducting Polymer Dots and Semiconductor Quantum Dots for Smartphone-Based Fluorescence Assays. Analytical Chemistry, 2019, 91, 10955-10960.	3.2	45
17	Supraparticle Assemblies of Magnetic Nanoparticles and Quantum Dots for Selective Cell Isolation and Counting on a Smartphone-Based Imaging Platform. Analytical Chemistry, 2019, 91, 11963-11971.	3.2	34
18	Cucurbituril-mediated quantum dot aggregates formed by aqueous self-assembly for sensing applications. Chemical Communications, 2019, 55, 5495-5498.	2.2	11

#	Article	IF	Citations
19	Nanoparticleâ€“Peptideâ€“Drug Bioconjugates for Unassisted Defeat of Multidrug Resistance in a Model Cancer Cell Line. Bioconjugate Chemistry, 2019, 30, 525-530.	1.8	23
20	Small Surface, Big Effects, and Big Challenges: Toward Understanding Enzymatic Activity at the Inorganic Nanoparticleâ€“Substrate Interface. Langmuir, 2019, 35, 7067-7091.	1.6	39
21	More Than a Light Switch: Engineering Unconventional Fluorescent Configurations for Biological Sensing. ACS Chemical Biology, 2018, 13, 1752-1766.	1.6	31
22	Polyacrylamide gel electrophoresis of semiconductor quantum dots and their bioconjugates: materials characterization and physical insights from spectrofluorimetric detection. Analyst, The, 2018, 143, 1104-1116.	1.7	6
23	Utility of PEGylated dithiolane ligands for direct synthesis of water-soluble Au, Ag, Pt, Pd, Cu and AuPt nanoparticles. Chemical Communications, 2018, 54, 1956-1959.	2.2	12
24	Intracellularly Actuated Quantum Dotâ€“Peptideâ€“Doxorubicin Nanobioconjugates for Controlled Drug Delivery via the Endocytic Pathway. Bioconjugate Chemistry, 2018, 29, 136-148.	1.8	44
25	Mimicking Cell Surface Enhancement of Protease Activity on the Surface of a Quantum Dot Nanoparticle. Bioconjugate Chemistry, 2018, 29, 3783-3792.	1.8	15
26	Concurrent Modulation of Quantum Dot Photoluminescence Using a Combination of Charge Transfer and FÃ¶rster Resonance Energy Transfer: Competitive Quenching and Multiplexed Biosensing Modality. Journal of the American Chemical Society, 2017, 139, 363-372.	6.6	64
27	Optimization and Changes in the Mode of Proteolytic Turnover of Quantum Dotâ€“Peptide Substrate Conjugates through Moderation of Interfacial Adsorption. ACS Applied Materials & Interfaces, 2017, 9, 30359-30372.	4.0	20
28	Time-Gated FRET and DNA-Based Photonic Molecular Logic Gates: AND, OR, NAND, and NOR. ACS Sensors, 2017, 2, 1205-1214.	4.0	58