# W Russ Algar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8828875/publications.pdf

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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 | Photoluminescent Nanoparticles for Chemical and Biological Analysis and Imaging. Chemical Reviews, 2021, 121, 9243-9358. | 23.0 | 162 |
| 2 | 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 |
| 3 | Time-Gated FRET and DNA-Based Photonic Molecular Logic Gates: AND, OR, NAND, and NOR. ACS Sensors, 2017, 2, 1205-1214. | 4.0 | 58 |
| 4 | 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 |
| 5 | 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 |
| 6 | Comparison of Semiconducting Polymer Dots and Semiconductor Quantum Dots for Smartphone-Based Fluorescence Assays. Analytical Chemistry, 2019, 91, 10955-10960. | 3.2 | 45 |
| 7 | Intracellularly Actuated Quantum Dotâ€“Peptideâ€“Doxorubicin Nanobioconjugates for Controlled Drug Delivery via the Endocytic Pathway. Bioconjugate Chemistry, 2018, 29, 136-148. | 1.8 | 44 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | More Than a Light Switch: Engineering Unconventional Fluorescent Configurations for Biological Sensing. ACS Chemical Biology, 2018, 13, 1752-1766. | 1.6 | 31 |
| 12 | 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 |
| 13 | 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 |
| 14 | Dextran-Functionalized Semiconductor Quantum Dot Bioconjugates for Bioanalysis and Imaging. Bioconjugate Chemistry, 2020, 31, 861-874. | 1.8 | 21 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Mimicking Cell Surface Enhancement of Protease Activity on the Surface of a Quantum Dot Nanoparticle. Bioconjugate Chemistry, 2018, 29, 3783-3792. | 1.8 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | Cucurbituril-mediated quantum dot aggregates formed by aqueous self-assembly for sensing applications. Chemical Communications, 2019, 55, 5495-5498. | 2.2 | 11 |
| 23 | Affinity Immobilization of Semiconductor Quantum Dots and Metal Nanoparticles on Cellulose Paper Substrates. ACS Applied Materials & Interfaces, 2020, 12, 53462-53474. | 4.0 | 9 |
| 24 | A Dendrimer-Based Time-Gated Concentric FRET Configuration for Multiplexed Sensing. ACS Nano, 2022, , . | 7.3 | 9 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | Yellow fluorescent protein-based label-free tension sensors for monitoring integrin tension. Chemical Communications, 2020, 56, 5556-5559. | 2.2 | 5 |