Igor L Medintz

List of Publications by Year
in descending order

314 papers	36,865 citations	3919 88 h-index	3173 186 g-index
344 all docs	344 docs citations	344 times ranked	29955 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	Packaging of Diisopropyl Fluorophosphatase (DFPase) in Bacterial Outer Membrane Vesicles Protects Its Activity at Extreme Temperature. ACS Biomaterials Science and Engineering, 2022, 8, 493-501.	2.6	4
3	An Investigation into the Resistance of Spherical Nucleic Acids against DNA Enzymatic Degradation. Bioconjugate Chemistry, 2022, 33, 219-225.	1.8	7
4	Mechanistic Understanding of DNA Denaturation in Nanoscale Thermal Gradients Created by Femtosecond Excitation of Gold Nanoparticles. ACS Applied Materials & Interfaces, 2022, 14, 3404-3417.	4.0	4
5	Synthesis of Substituted Cy5 Phosphoramidite Derivatives and Their Incorporation into Oligonucleotides Using Automated DNA Synthesis. ACS Omega, 2022, 7, 11002-11016.	1.6	11
6	Rapid DNA origami nanostructure detection and classification using the YOLOv5 deep convolutional neural network. Scientific Reports, 2022, 12, 3871.	1.6	16
7	Tuning between Quenching and Energy Transfer in DNA-Templated Heterodimer Aggregates. Journal of Physical Chemistry Letters, 2022, 13, 2782-2791.	2.1	15
8	Self-assembled nanoparticle-enzyme aggregates enhance functional protein production in pure transcription-translation systems. PLoS ONE, 2022, 17, e0265274.	1.1	8
9	Understanding Self-Assembled Pseudoisocyanine Dye Aggregates in DNA Nanostructures and Their Exciton Relay Transfer Capabilities. Journal of Physical Chemistry B, 2022, 126, 110-122.	1.2	11
10	Determining the Cytosolic Stability of Small DNA Nanostructures <i>In Cellula</i>. Nano Letters, 2022, 22, 5037-5045.	4.5	14
11	Implementing Multi-Enzyme Biocatalytic Systems Using Nanoparticle Scaffolds. Methods in Molecular Biology, 2022, , 227-262.	0.4	1
12	Polyhistidine-Tag-Enabled Conjugation of Quantum Dots and Enzymes to DNA Nanostructures. Methods in Molecular Biology, 2022, , 61-91.	0.4	6
13	A Nanobodyâ€onâ€Quantum Dot Displacement Assay for Rapid and Sensitive Quantification of the Epidermal Growth Factor Receptor (EGFR). Angewandte Chemie - International Edition, 2022, 61, .	7.2	9
14	Chemosensors Comes of Age. Chemosensors, 2021, 9, 22.	1.8	0
15	Harnessing the potential of <i>Lactobacillus</i> species for therapeutic delivery at the lumenal-mucosal interface. Future Science OA, 2021, 7, FSO671.	0.9	2
16	Direct and Efficient Conjugation of Quantum Dots to DNA Nanostructures with Peptide-PNA. ACS Nano, 2021, 15, 9101-9110.	7.3	27
17	Excited-State Dynamics of Photoluminescent Gold Nanoclusters and Their Assemblies with Quantum Dot Donors. Journal of Physical Chemistry C, 2021, 125, 12073-12085.	1.5	4
18	Parameters guiding the self-assembly of quantum dots and DNA origami by peptide-PNA. , 2021, , .		0

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19	FÃ¶rster Resonance Energy Transfer in Linear DNA Multifluorophore Photonic Wires: Comparing Dual versus Split Rail Building Block Designs. Advanced Optical Materials, 2021, 9, 2100884.	3.6	5
20	Gold nanoparticles capable of templating entire enzyme cascades and improving production yield through substrate channeling. , 2021, , .		0
21	Exploring the Holliday Junction in a DNA nanostructure for creating excitonic dimers. , 2021, , .		1
22	Enhancing enzymatic performance with nanoparticle immobilization: improved analytical and control capability for synthetic biochemistry. Current Opinion in Biotechnology, 2021, 71, 77-90.	3.3	21
23	Can a DNA Origami Structure Constrain the Position and Orientation of an Attached Dye Molecule?. Journal of Physical Chemistry C, 2021, 125, 1509-1522.	1.5	26
24	Gold Nanoparticle Templating Increases the Catalytic Rate of an Amylase, Maltase, and Glucokinase Multienzyme Cascade through Substrate Channeling Independent of Surface Curvature. ACS Catalysis, 2021, 11, 627-638.	5.5	19
25	Understanding FÃ¶rster Resonance Energy Transfer in the Sheet Regime with DNA Brick-Based Dye Networks. ACS Nano, 2021, 15, 16452-16468.	7.3	14
26	Understanding Disorder, Vibronic Structure, and Delocalization in Electronically Coupled Dimers on DNA Duplexes. Journal of Physical Chemistry A, 2021, 125, 9632-9644.	1.1	11
27	Enzymatic bioconjugation to nanoparticles. , 2021, , .		0
28	Gold-Nanoparticle-Mediated Depolarization of Membrane Potential Is Dependent on Concentration and Tethering Distance from the Plasma Membrane. Bioconjugate Chemistry, 2020, 31, 567-576.	1.8	8
29	Femtosecond Laser Pulse Excitation of DNA-Labeled Gold Nanoparticles: Establishing a Quantitative Local Nanothermometer for Biological Applications. ACS Nano, 2020, 14, 8570-8583.	7.3	33
30	Affinity Immobilization of Semiconductor Quantum Dots and Metal Nanoparticles on Cellulose Paper Substrates. ACS Applied Materials & Interfaces, 2020, 12, 53462-53474.	4.0	9
31	Delocalized Two-Exciton States in DNA Scaffolded Cyanine Dimers. Journal of Physical Chemistry B, 2020, 124, 8042-8049.	1.2	25
32	Timeâ€Gated FRET Nanoprobes for Autofluorescenceâ€Free Longâ€Term In Vivo Imaging of Developing Zebrafish. Advanced Materials, 2020, 32, e2003912.	11.1	20
33	Ultrafast Excitation Transfer in Cy5 DNA Photonic Wires Displays Dye Conjugation and Excitation Energy Dependency. Journal of Physical Chemistry Letters, 2020, 11, 4163-4172.	2.1	34
34	DNA Microsystems for Biodiagnosis. Micromachines, 2020, 11, 445.	1.4	3
35	Terbium-to-quantum dot FÃ¶rster resonance energy transfer for homogeneous and sensitive detection of histone methyltransferase activity. Nanoscale, 2020, 12, 13719-13730.	2.8	7
36	Bioluminescence-Based Energy Transfer Using Semiconductor Quantum Dots as Acceptors. Sensors, 2020, 20, 2909.	2.1	9

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37	DNA Origami Chromophore Scaffold Exploiting HomoFRET Energy Transport to Create Molecular Photonic Wires. ACS Applied Nano Materials, 2020, 3, 3323-3336.	2.4	24
38	Picomolar Biosensing and Conformational Analysis Using Artificial Bidomain Proteins and Terbium-to-Quantum Dot FÃ¶rster Resonance Energy Transfer. ACS Nano, 2020, 14, 5956-5967.	7.3	24
39	Quantum Dots and Gold Nanoparticles as Scaffolds for Enzymatic Enhancement: Recent Advances and the Influence of Nanoparticle Size. Catalysts, 2020, 10, 83.	1.6	20
40	Nanoparticle-Mediated Visualization and Control of Cellular Membrane Potential: Strategies, Progress, and Remaining Issues. ACS Nano, 2020, 14, 2659-2677.	7.3	35
41	Quantum Dot Lipase Biosensor Utilizing a Custom-Synthesized Peptidyl-Ester Substrate. ACS Sensors, 2020, 5, 1295-1304.	4.0	21
42	Quantum dots for FÃ¶rster Resonance Energy Transfer (FRET). TrAC - Trends in Analytical Chemistry, 2020, 125, 115819.	5.8	131
43	A Multiparametric Evaluation of Quantum Dot Size and Surface-Grafted Peptide Density on Cellular Uptake and Cytotoxicity. Bioconjugate Chemistry, 2020, 31, 1077-1087.	1.8	15
44	Understanding the fate of DNA nanostructures inside the cell. Journal of Materials Chemistry B, 2020, 8, 6170-6178.	2.9	26
45	Liveâ€Cell Imaging: Timeâ€Gated FRET Nanoprobes for Autofluorescenceâ€Free Longâ€Term In Vivo Imaging of Developing Zebrafish (Adv. Mater. 39/2020). Advanced Materials, 2020, 32, .	11.1	2
46	Toxicity Models: Bayesian Network Resource for Metaâ€Analysis: Cellular Toxicity of Quantum Dots (Small 34/2019). Small, 2019, 15, 1970181.	5.2	2
47	Utilizing the Organizational Power of DNA Scaffolds for New Nanophotonic Applications. Advanced Optical Materials, 2019, 7, 1900562.	3.6	30
48	Nanoparticle Size Influences Localized Enzymatic Enhancementâ€”A Case Study with Phosphotriesterase. Bioconjugate Chemistry, 2019, 30, 2060-2074.	1.8	33
49	Artificial Multienzyme Scaffolds: Pursuing <i>in Vitro</i> Substrate Channeling with an Overview of Current Progress. ACS Catalysis, 2019, 9, 10812-10869.	5.5	115
50	FRET as a biomolecular research tool â€” understanding its potential while avoiding pitfalls. Nature Methods, 2019, 16, 815-829.	9.0	354
51	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
52	Enhanced electrochemical biosensor and supercapacitor with 3D porous architectured graphene <i>via</i> salt impregnated inkjet maskless lithography. Nanoscale Horizons, 2019, 4, 735-746.	4.1	43
53	Porous Wood Monoliths Decorated with Platinum Nano-Urchins as Catalysts for Underwater Micro-Vehicle Propulsion via H₂O₂ Decomposition. ACS Applied Nano Materials, 2019, 2, 4143-4149.	2.4	5
54	Bayesian Network Resource for Metaâ€Analysis: Cellular Toxicity of Quantum Dots. Small, 2019, 15, e1900510.	5.2	35

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55	Designing inorganic nanomaterials for vaccines and immunotherapies. Nano Today, 2019, 27, 73-98.	6.2	102
56	The Role of Ligands in the Chemical Synthesis and Applications of Inorganic Nanoparticles. Chemical Reviews, 2019, 119, 4819-4880.	23.0	709
57	The Growing Development of DNA Nanostructures for Potential Healthcareâ€Related Applications. Advanced Healthcare Materials, 2019, 8, e1801546.	3.9	60
58	Transducing Protease Activity into DNA Output for Developing Smart Bionanosensors. Small, 2019, 15, 1805384.	5.2	16
59	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
60	Enhanced Catalysis from Multienzyme Cascades Assembled on a DNA Origami Triangle. ACS Nano, 2019, 13, 13677-13689.	7.3	100
61	Enzymatic Bioremediation of Organophosphate Compoundsâ€"Progress and Remaining Challenges. Frontiers in Bioengineering and Biotechnology, 2019, 7, 289.	2.0	81
62	Dendrimeric DNA-Based Nanoscaffolded BRET-FRET Optical Encryption Keys. ACS Applied Nano Materials, 2019, 2, 7459-7465.	2.4	18
63	Exploiting the Feedstock Flexibility of the Emergent Synthetic Biology Chassis Vibrio natriegens for Engineered Natural Product Production. Marine Drugs, 2019, 17, 679.	2.2	29
64	Conformational Details of Quantum Dot-DNA Resolved by FÃ¶rster Resonance Energy Transfer Lifetime Nanoruler. ACS Nano, 2019, 13, 505-514.	7.3	38
65	Analyzing fidelity and reproducibility of DNA templated plasmonic nanostructures. Nanoscale, 2019, 11, 20693-20706.	2.8	17
66	DNA based molecular logic devices: a review of some ongoing work with multifluorophore FRET systems. , 2019, , .		0
67	Time-gated FRET from terbium labeled antibodies to quantum dot acceptors for broad ADP sensing. , 2019, , .		0
68	Printed Graphene Electrochemical Biosensors Fabricated by Inkjet Maskless Lithography for Rapid and Sensitive Detection of Organophosphates. ACS Applied Materials & Interfaces, 2018, 10, 11125-11134.	4.0	112
69	Restriction Enzymes as a Target for DNA-Based Sensing and Structural Rearrangement. ACS Omega, 2018, 3, 495-502.	1.6	15
70	Environmental Decontamination of a Chemical Warfare Simulant Utilizing a Membrane Vesicle-Encapsulated Phosphotriesterase. ACS Applied Materials & Interfaces, 2018, 10, 15712-15719.	4.0	35
71	Evaluating the potential of using quantum dots for monitoring electrical signals in neurons. Nature Nanotechnology, 2018, 13, 278-288.	15.6	96
72	Exploring attachment chemistry with FRET in hybrid quantum dot dye-labeled DNA dendrimer composites. Molecular Systems Design and Engineering, 2018, 3, 314-327.	1.7	12

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73	Resonance Energy Transfer: Utilizing HomoFRET to Extend DNAâ€Scaffolded Photonic Networks and Increase Lightâ€Harvesting Capability (Advanced Optical Materials 1/2018). Advanced Optical Materials, 2018, 6, 1870005.	3.6	1
74	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
75	Optical Properties of Vibronically Coupled Cy3 Dimers on DNA Scaffolds. Journal of Physical Chemistry B, 2018, 122, 5020-5029.	1.2	58
76	Utilizing HomoFRET to Extend DNAâ€Scaffolded Photonic Networks and Increase Lightâ€Harvesting Capability. Advanced Optical Materials, 2018, 6, 1700679.	3.6	44
77	Intracellularly Actuated Quantum Dotâ€"Peptideâ€"Doxorubicin Nanobioconjugates for Controlled Drug Delivery via the Endocytic Pathway. Bioconjugate Chemistry, 2018, 29, 136-148.	1.8	44
78	Pursuing the Promise of Enzymatic Enhancement with Nanoparticle Assemblies. Langmuir, 2018, 34, 2901-2925.	1.6	48
79	Improving Transfer Efficiency of Molecular Photonic Wires on DNA Scaffolds. , 2018, , .		0
80	Quantum Dots as FÃ¶rster Resonance Energy Transfer Acceptors of Lanthanides in Time-Resolved Bioassays. ACS Applied Nano Materials, 2018, 1, 3006-3014.	2.4	28
81	A Quantum Dot-Protein Bioconjugate That Provides for Extracellular Control of Intracellular Drug Release. Bioconjugate Chemistry, 2018, 29, 2455-2467.	1.8	23
82	Quantum Dotâ€"Based FRET Immunoassay for HER2 Using Ultrasmall Affinity Proteins. Small, 2018, 14, e1802266.	5.2	36
83	Detecting Biothreat Agents: From Current Diagnostics to Developing Sensor Technologies. ACS Sensors, 2018, 3, 1894-2024.	4.0	118
84	Enhancing Coupled Enzymatic Activity by Colocalization on Nanoparticle Surfaces: Kinetic Evidence for Directed Channeling of Intermediates. ACS Nano, 2018, 12, 7911-7926.	7.3	52
85	DNAâ€"Nanoparticle Composites Synergistically Enhance Organophosphate Hydrolase Enzymatic Activity. ACS Applied Nano Materials, 2018, 1, 3091-3097.	2.4	14
86	Increased Transfer Efficiency from Molecular Photonic Wires on Solid Substrates and Cryogenic Conditions. Journal of Physical Chemistry Letters, 2018, 9, 3654-3659.	2.1	13
87	Nanoparticle bioconjugate for controlled cellular delivery of doxorubicin. , 2018, , .		0
88	Energy Transfer with Semiconductor Quantum Dot Bioconjugates: A Versatile Platform for Biosensing, Energy Harvesting, and Other Developing Applications. Chemical Reviews, 2017, 117, 536-711.	23.0	575
89	Analyzing DNA Nanotechnology: A Call to Arms For The Analytical Chemistry Community. Analytical Chemistry, 2017, 89, 2646-2663.	3.2	70
90	Evaluating Dye-Labeled DNA Dendrimers for Potential Applications in Molecular Biosensing. ACS Sensors, 2017, 2, 401-410.	4.0	31

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91	Semiconductor quantum dots as FÃ¶rster resonance energy transfer donors for intracellularly-based biosensors. , 2017, , .		1
92	Cellular Applications of Semiconductor Quantum Dots at the U.S. Naval Research Laboratory: 2006â€“2016. Reviews in Fluorescence, 2017, , 203-242.	0.5	0
93	Enhancing coupled enzymatic activity by conjugating one enzyme to a nanoparticle. Nanoscale, 2017, 9, 5172-5187.	2.8	41
94	Bridging Lanthanide to Quantum Dot Energy Transfer with a Short-Lifetime Organic Dye. Journal of Physical Chemistry Letters, 2017, 8, 2182-2188.	2.1	34
95	Growing applications for bioassembled FÃ¶rster resonance energy transfer cascades. Materials Today, 2017, 20, 131-141.	8.3	34
96	Quantum Dotâ€“Peptideâ€“Fullerene Bioconjugates for Visualization of <i>in Vitro</i> and <i>in Vivo</i> Cellular Membrane Potential. ACS Nano, 2017, 11, 5598-5613.	7.3	68
97	Elucidating Surface Ligand-Dependent Kinetic Enhancement of Proteolytic Activity at Surface-Modified Quantum Dots. ACS Nano, 2017, 11, 5884-5896.	7.3	39
98	Engineering Immunological Tolerance Using Quantum Dots to Tune the Density of Selfâ€Antigen Display. Advanced Functional Materials, 2017, 27, 1700290.	7.8	67
99	Multiplexed Nucleic Acid Hybridization Assays Using Singleâ€FRETâ€Pair Distanceâ€Tuning. Small, 2017, 13, 1700332.	5.2	58
100	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
101	Understanding energy transfer with luminescent gold nanoclusters: a promising new transduction modality for biorelated applications. Journal of Materials Chemistry B, 2017, 5, 7907-7926.	2.9	56
102	Purple-, Blue-, and Green-Emitting Multishell Alloyed Quantum Dots: Synthesis, Characterization, and Application for Ratiometric Extracellular pH Sensing. Chemistry of Materials, 2017, 29, 7330-7344.	3.2	74
103	Optical determination of the electronic coupling and intercalation geometry of thiazole orange homodimer in DNA. Journal of Chemical Physics, 2017, 147, 055101.	1.2	17
104	Kinetic enhancement in high-activity enzyme complexes attached to nanoparticles. Nanoscale Horizons, 2017, 2, 241-252.	4.1	21
105	Time-Gated FRET and DNA-Based Photonic Molecular Logic Gates: AND, OR, NAND, and NOR. ACS Sensors, 2017, 2, 1205-1214.	4.0	58
106	Lifting the Spectral Crosstalk in Multifluorophore Assemblies. Journal of Physical Chemistry C, 2017, 121, 26226-26232.	1.5	15
107	Enhanced enzymatic activity from phosphotriesterase trimer gold nanoparticle bioconjugates for pesticide detection. Analyst, The, 2017, 142, 3261-3271.	1.7	33
108	Nanoparticle cellular uptake by dendritic wedge peptides: achieving single peptide facilitated delivery. Nanoscale, 2017, 9, 10447-10464.	2.8	28

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109	Quantum Dot Encapsulation Using a Peptide-Modified Tetrahedral DNA Cage. Chemistry of Materials, 2017, 29, 5762-5766.	3.2	34
110	Targeting and delivery of therapeutic enzymes. Therapeutic Delivery, 2017, 8, 577-595.	1.2	49
111	Waterâ€Soluble, Thermostable, Photomodulated Colorâ€Switching Quantum Dots. Chemistry - A European Journal, 2017, 23, 263-267.	1.7	36
112	Assembling high activity phosphotriesterase composites using hybrid nanoparticle peptide-DNA scaffolded architectures. Nano Futures, 2017, 1, 011002.	1.0	22
113	Dendrimeric DNA Nanostructures as Scaffolds for Efficient Bidirectional BRETâ€"FRET Cascades. Advanced Optical Materials, 2017, 5, 1700181.	3.6	27
114	DNA scaffold nanostructures for efficient and directional propagation of light harvesting cascades. , 2017, , .		0
115	Extending DNAâ€Based Molecular Photonic Wires with Homogeneous FÃ¶rster Resonance Energy Transfer. Advanced Optical Materials, 2016, 4, 399-412.	3.6	43
116	Expanding molecular logic capabilities in DNA-scaffolded multiFRET triads. RSC Advances, 2016, 6, 97587-97598.	1.7	23
117	Protecting enzymatic function through directed packaging into bacterial outer membrane vesicles. Scientific Reports, 2016, 6, 24866.	1.6	88
118	Using DNA nanostructures to harvest light and create energy transfer and harvesting systems. , 2016, , .		2
119	Emerging Physicochemical Phenomena along with New Opportunities at the Biomoleculara€"Nanoparticle Interface. Journal of Physical Chemistry Letters, 2016, 7, 2139-2150.	2.1	41
120	3,4-Dihydroxyphenylalanine Peptides as Nonperturbative Quantum Dot Sensors of Aminopeptidase. ACS Nano, 2016, 10, 6090-6099.	7.3	23
121	A DNAzyme-mediated logic gate for programming molecular capture and release on DNA origami. Chemical Communications, 2016, 52, 8369-8372.	2.2	38
122	Nanoparticles and DNA â€" a powerful and growing functional combination in bionanotechnology. Nanoscale, 2016, 8, 9037-9095.	2.8	181
123	Nanomaterial-based sensors for the detection of biological threat agents. Materials Today, 2016, 19, 464-477.	8.3	67
124	Conjugation of biotin-coated luminescent quantum dots with single domain antibody-rhizavidin fusions. Biotechnology Reports (Amsterdam, Netherlands), 2016, 10, 56-65.	2.1	16
125	Interesting developments at the nanoparticleâ€"protein interface: implications for next generation drug delivery. Therapeutic Delivery, 2016, 7, 513-516.	1.2	4
126	Energy Transfer Sensitization of Luminescent Gold Nanoclusters: More than Just the Classical FÃ¶rster Mechanism. Scientific Reports, 2016, 6, 35538.	1.6	66

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127	Synthesis and Characterization of PEGylated Luminescent Gold Nanoclusters Doped with Silver and Other Metals. Chemistry of Materials, 2016, 28, 8676-8688.	3.2	54
128	Quantum dotâ€mediated delivery of siRNA to inhibit sphingomyelinase activities in brainâ€derived cells. Journal of Neurochemistry, 2016, 139, 872-885.	2.1	19
129	Time-gated FRET nanoassemblies for rapid and sensitive intra- and extracellular fluorescence imaging. Science Advances, 2016, 2, e1600265.	4.7	56
130	Platinum Nanoparticle Decorated SiO₂ Microfibers as Catalysts for Micro Unmanned Underwater Vehicle Propulsion. ACS Applied Materials & Interfaces, 2016, 8, 30941-30947.	4.0	18
131	Understanding the Enhanced Kinetics of Enzyme-Quantum Dot Constructs. MRS Advances, 2016, 1, 3831-3836.	0.5	2
132	The influence of cell penetrating peptide branching on cellular uptake of QDs. , 2016, , .		1
133	Quantum dot based enzyme activity sensors present deviations from Michaelis-Menten kinetic model. , 2016, , .		0
134	Meta-analysis of cellular toxicity for cadmium-containing quantum dots. Nature Nanotechnology, 2016, 11, 479-486.	15.6	393
135	FRET from Multiple Pathways in Fluorophore-Labeled DNA. ACS Photonics, 2016, 3, 659-669.	3.2	63
136	Improving the targeting of therapeutics with single-domain antibodies. Expert Opinion on Drug Delivery, 2016, 13, 561-570.	2.4	9
137	Biosensing with FÃ¶rster Resonance Energy Transfer Coupling between Fluorophores and Nanocarbon Allotropes. Sensors, 2015, 15, 14766-14787.	2.1	29
138	Modulation of Intracellular Quantum Dot to Fluorescent Protein FÃ¶rster Resonance Energy Transfer via Customized Ligands and Spatial Control of Donorâ€“Acceptor Assembly. Sensors, 2015, 15, 30457-30468.	2.1	12
139	Quantum dot display enhances activity of a phosphotriesterase trimer. Chemical Communications, 2015, 51, 6403-6406.	2.2	38
140	Increasing the activity of immobilized enzymes with nanoparticle conjugation. Current Opinion in Biotechnology, 2015, 34, 242-250.	3.3	228
141	Time-Gated DNA Photonic Wires with FÃ¶rster Resonance Energy Transfer Cascades Initiated by a Luminescent Terbium Donor. ACS Photonics, 2015, 2, 639-652.	3.2	35
142	Intracellular FRET-based probes: a review. Methods and Applications in Fluorescence, 2015, 3, 042006.	1.1	80
143	Use of biomolecular scaffolds for assembling multistep light harvesting and energy transfer devices. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2015, 23, 1-24.	5.6	52
144	Delivery and Tracking of Quantum Dot Peptide Bioconjugates in an Intact Developing Avian Brain. ACS Chemical Neuroscience, 2015, 6, 494-504.	1.7	67

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145	Probing the Enzymatic Activity of Alkaline Phosphatase within Quantum Dot Bioconjugates. Journal of Physical Chemistry C, 2015, 119, 2208-2221.	1.5	62
146	Enhancing enzymatic efficiency by attachment to semiconductor nanoparticles for biosensor applications. , 2015, , .		0
147	Understanding How Nanoparticle Attachment Enhances Phosphotriesterase Kinetic Efficiency. ACS Nano, 2015, 9, 8491-8503.	7.3	67
148	High Aspect Ratio Carbon Nanotube Membranes Decorated with Pt Nanoparticle Urchins for Micro Underwater Vehicle Propulsion<i>via</i>H₂O₂Decomposition. ACS Nano, 2015, 9, 7791-7803.	7.3	51
149	Membrane-targeting peptides for nanoparticle-facilitated cellular imaging and analysis. Proceedings of SPIE, 2015, , .	0.8	1
150	An enzymatically-sensitized sequential and concentric energy transfer relay self-assembled around semiconductor quantum dots. Nanoscale, 2015, 7, 7603-7614.	2.8	42
151	Enzymatic bioconjugation of nanoparticles: developing specificity and control. Current Opinion in Biotechnology, 2015, 34, 232-241.	3.3	40
152	Peptides for Specifically Targeting Nanoparticles to Cellular Organelles: <i>Quo Vadis</i>?. Accounts of Chemical Research, 2015, 48, 1380-1390.	7.6	118
153	Combining semiconductor quantum dots and bioscaffolds into nanoscale energy transfer devices. Applied Optics, 2015, 54, F85.	2.1	3
154	Chemoenzymatic Sensitization of DNA Photonic Wires Mediated through Quantum Dot Energy Transfer Relays. Chemistry of Materials, 2015, 27, 6490-6494.	3.2	52
155	Examining the Polyproline Nanoscopic Ruler in the Context of Quantum Dots. Chemistry of Materials, 2015, 27, 6222-6237.	3.2	30
156	Bacterial Nanobioreactorsâ€"Directing Enzyme Packaging into Bacterial Outer Membrane Vesicles. ACS Applied Materials & Interfaces, 2015, 7, 24963-24972.	4.0	106
157	The Role of Negative Charge in the Delivery of Quantum Dots to Neurons. ASN Neuro, 2015, 7, 175909141559238.	1.5	39
158	Emerging therapeutic delivery capabilities and challenges utilizing enzyme/protein packaged bacterial vesicles. Therapeutic Delivery, 2015, 6, 873-887.	1.2	30
159	Editorial overview: Nanobiotechnology: A time-stamped cross-sectional analysis. Current Opinion in Biotechnology, 2015, 34, vii-ix.	3.3	0
160	Modified kinetics of enzymes interacting with nanoparticles. , 2015, , .		1
161	Probing the kinetics of quantum dot-based proteolytic sensors. Analytical and Bioanalytical Chemistry, 2015, 407, 7307-7318.	1.9	37
162	Time-Resolved Nucleic Acid Hybridization Beacons Utilizing Unimolecular and Toehold-Mediated Strand Displacement Designs. Analytical Chemistry, 2015, 87, 11923-11931.	3.2	17

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163	Continuing progress toward controlled intracellular delivery of semiconductor quantum dots. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2015, 7, 131-151.	3.3	36
164	In vitro interaction of colloidal nanoparticles with mammalian cells: What have we learned thus far?. Beilstein Journal of Nanotechnology, 2014, 5, 1477-1490.	1.5	130
165	Assembling programmable FRET-based photonic networks using designer DNA scaffolds. Nature Communications, 2014, 5, 5615.	5.8	142
166	Resonance Energy Transfer in DNA Duplexes Labeled with Localized Dyes. Journal of Physical Chemistry B, 2014, 118, 14555-14565.	1.2	55
167	Extending FRET cascades on linear DNA photonic wires. Chemical Communications, 2014, 50, 7246.	2.2	64
168	Monitoring enzyme kinetic behavior of enzyme-quantum dot bioconjugates. Proceedings of SPIE, 2014, , .	0.8	0
169	Controlling the intracellular fate of nano-bioconjugates: pathways for realizing nanoparticle-mediated theranostics. Proceedings of SPIE, 2014, , .	0.8	0
170	Emerging non-traditional FÃ¶rster resonance energy transfer configurations with semiconductor quantum dots: Investigations and applications. Coordination Chemistry Reviews, 2014, 263-264, 65-85.	9.5	159
171	Understanding enzymatic acceleration at nanoparticle interfaces: Approaches and challenges. Nano Today, 2014, 9, 102-131.	6.2	187
172	Peptide-Functionalized Quantum Dot Biosensors. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 115-126.	1.9	11
173	Recent progress in the bioconjugation of quantum dots. Coordination Chemistry Reviews, 2014, 263-264, 101-137.	9.5	190
174	Complex Logic Functions Implemented with Quantum Dot Bionanophotonic Circuits. ACS Applied Materials & Interfaces, 2014, 6, 3771-3778.	4.0	98
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