

Eunkeu Oh

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102
papers

6,216
citations

39
h-index

78
g-index

110
ext. papers

7,119
ext. citations

10.2
avg, IF

5.62
L-index

#	Paper	IF	Citations
102	Functionalizing nanoparticles with biological molecules: developing chemistries that facilitate nanotechnology. <i>Chemical Reviews</i> , 2013 , 113, 1904-2074	68.1	1008
101	Inhibition assay of biomolecules based on fluorescence resonance energy transfer (FRET) between quantum dots and gold nanoparticles. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3270-1	16.4	475
100	Energy Transfer with Semiconductor Quantum Dot Bioconjugates: A Versatile Platform for Biosensing, Energy Harvesting, and Other Developing Applications. <i>Chemical Reviews</i> , 2017 , 117, 536-711	68.1	439
99	The Role of Ligands in the Chemical Synthesis and Applications of Inorganic Nanoparticles. <i>Chemical Reviews</i> , 2019 , 119, 4819-4880	68.1	375
98	Cellular uptake and fate of PEGylated gold nanoparticles is dependent on both cell-penetration peptides and particle size. <i>ACS Nano</i> , 2011 , 5, 6434-48	16.7	334
97	Meta-analysis of cellular toxicity for cadmium-containing quantum dots. <i>Nature Nanotechnology</i> , 2016 , 11, 479-86	28.7	303
96	Multifunctional compact zwitterionic ligands for preparing robust biocompatible semiconductor quantum dots and gold nanoparticles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9480-96	16.4	235
95	Energy transfer-based multiplexed assay of proteases by using gold nanoparticle and quantum dot conjugates on a surface. <i>Analytical Chemistry</i> , 2008 , 80, 4634-41	7.8	167
94	One-phase synthesis of water-soluble gold nanoparticles with control over size and surface functionalities. <i>Langmuir</i> , 2010 , 26, 7604-13	4	139
93	Preparation of a magnetically switchable bio-electrocatalytic system employing cross-linked enzyme aggregates in magnetic mesocellular carbon foam. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7427-32	16.4	128
92	Effects of ligand coordination number and surface curvature on the stability of gold nanoparticles in aqueous solutions. <i>Langmuir</i> , 2009 , 25, 10604-11	4	113
91	Selecting improved peptidyl motifs for cytosolic delivery of disparate protein and nanoparticle materials. <i>ACS Nano</i> , 2013 , 7, 3778-96	16.7	111
90	PEGylated Luminescent Gold Nanoclusters: Synthesis, Characterization, Bioconjugation, and Application to One- and Two-Photon Cellular Imaging. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 453-466	3.1	95
89	Bacterial Nanobioreactors--Directing Enzyme Packaging into Bacterial Outer Membrane Vesicles. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24963-72	9.5	80
88	A New Family of Pyridine-Appended Multidentate Polymers As Hydrophilic Surface Ligands for Preparing Stable Biocompatible Quantum Dots. <i>Chemistry of Materials</i> , 2014 , 26, 5327-5344	9.6	78
87	Protein kinase assay on peptide-conjugated gold nanoparticles by using secondary-ion mass spectrometric imaging. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6816-9	16.4	74
86	Reactive semiconductor nanocrystals for chemoselective biolabeling and multiplexed analysis. <i>ACS Nano</i> , 2011 , 5, 5579-93	16.7	72

85	Nanoparticle-based energy transfer for rapid and simple detection of protein glycosylation. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7959-63	16.4	72
84	Magnetophoretic immunoassay of allergen-specific IgE in an enhanced magnetic field gradient. <i>Analytical Chemistry</i> , 2007 , 79, 2214-20	7.8	70
83	Electric Field Modulation of Semiconductor Quantum Dot Photoluminescence: Insights Into the Design of Robust Voltage-Sensitive Cellular Imaging Probes. <i>Nano Letters</i> , 2015 , 15, 6848-54	11.5	62
82	Preparation of stable maleimide-functionalized au nanoparticles and their use in counting surface ligands. <i>Small</i> , 2010 , 6, 1273-8	11	58
81	Purple-, Blue-, and Green-Emitting Multishell Alloyed Quantum Dots: Synthesis, Characterization, and Application for Ratiometric Extracellular pH Sensing. <i>Chemistry of Materials</i> , 2017 , 29, 7330-7344	9.6	55
80	Extending FRET cascades on linear DNA photonic wires. <i>Chemical Communications</i> , 2014 , 50, 7246-9	5.8	54
79	Quantum Dot-Peptide-Fullerene Bioconjugates for Visualization of in Vitro and in Vivo Cellular Membrane Potential. <i>ACS Nano</i> , 2017 , 11, 5598-5613	16.7	53
78	Energy Transfer Sensitization of Luminescent Gold Nanoclusters: More than Just the Classical Förster Mechanism. <i>Scientific Reports</i> , 2016 , 6, 35538	4.9	53
77	Colloidal Stability of Gold Nanoparticles Coated with Multithiol-Poly(ethylene glycol) Ligands: Importance of Structural Constraints of the Sulfur Anchoring Groups. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18947-18956	3.8	53
76	Influence of luminescence quantum yield, surface coating, and functionalization of quantum dots on the sensitivity of time-resolved FRET bioassays. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2881-2892	9.5	53
75	Concurrent Modulation of Quantum Dot Photoluminescence Using a Combination of Charge Transfer and Förster Resonance Energy Transfer: Competitive Quenching and Multiplexed Biosensing Modality. <i>Journal of the American Chemical Society</i> , 2017 , 139, 363-372	16.4	52
74	Competition between Förster resonance energy transfer and electron transfer in stoichiometrically assembled semiconductor quantum dot-fullerene conjugates. <i>ACS Nano</i> , 2013 , 7, 9489-505	16.7	52
73	Quantitative analysis of surface-immobilized protein by TOF-SIMS: effects of protein orientation and trehalose additive. <i>Analytical Chemistry</i> , 2007 , 79, 1377-85	7.8	51
72	Understanding How Nanoparticle Attachment Enhances Phosphotriesterase Kinetic Efficiency. <i>ACS Nano</i> , 2015 , 9, 8491-503	16.7	50
71	Probing the Enzymatic Activity of Alkaline Phosphatase within Quantum Dot Bioconjugates. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2208-2221	3.8	49
70	Isolation and characterization of Lactobacillus-derived membrane vesicles. <i>Scientific Reports</i> , 2019 , 9, 877	4.9	48
69	Engineering Immunological Tolerance Using Quantum Dots to Tune the Density of Self-Antigen Display. <i>Advanced Functional Materials</i> , 2017 , 27, 1700290	15.6	47
68	Understanding energy transfer with luminescent gold nanoclusters: a promising new transduction modality for biorelated applications. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 7907-7926	7.3	45

67	Quantum Dot-Conjugated SARS-CoV-2 Spike Pseudo-Virions Enable Tracking of Angiotensin Converting Enzyme 2 Binding and Endocytosis. <i>ACS Nano</i> , 2020 , 14, 12234-12247	16.7	45
66	Chemoenzymatic Sensitization of DNA Photonic Wires Mediated through Quantum Dot Energy Transfer Relays. <i>Chemistry of Materials</i> , 2015 , 27, 6490-6494	9.6	44
65	Synthesis and Characterization of PEGylated Luminescent Gold Nanoclusters Doped with Silver and Other Metals. <i>Chemistry of Materials</i> , 2016 , 28, 8676-8688	9.6	42
64	On-chip detection of protein glycosylation based on energy transfer between nanoparticles. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1189-94	11.8	41
63	The SARS-CoV-2 Cytopathic Effect Is Blocked by Lysosome Alkalinizing Small Molecules. <i>ACS Infectious Diseases</i> , 2021 , 7, 1389-1408	5.5	39
62	Gold nanoparticle-enhanced secondary ion mass spectrometry imaging of peptides on self-assembled monolayers. <i>Analytical Chemistry</i> , 2006 , 78, 1913-20	7.8	38
61	Three-Dimensional Solution-Phase Förster Resonance Energy Transfer Analysis of Nanomolar Quantum Dot Bioconjugates with Subnanometer Resolution. <i>Chemistry of Materials</i> , 2014 , 26, 4299-4312	9.6	35
60	Enhancing Coupled Enzymatic Activity by Colocalization on Nanoparticle Surfaces: Kinetic Evidence for Directed Channeling of Intermediates. <i>ACS Nano</i> , 2018 , 12, 7911-7926	16.7	32
59	Water-Soluble, Thermostable, Photomodulated Color-Switching Quantum Dots. <i>Chemistry - A European Journal</i> , 2017 , 23, 263-267	4.8	31
58	Enhancing coupled enzymatic activity by conjugating one enzyme to a nanoparticle. <i>Nanoscale</i> , 2017 , 9, 5172-5187	7.7	30
57	Elucidating Surface Ligand-Dependent Kinetic Enhancement of Proteolytic Activity at Surface-Modified Quantum Dots. <i>ACS Nano</i> , 2017 , 11, 5884-5896	16.7	28
56	Probing the kinetics of quantum dot-based proteolytic sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 7307-18	4.4	28
55	Intracellularly Actuated Quantum Dot-Peptide-Doxorubicin Nanobioconjugates for Controlled Drug Delivery via the Endocytic Pathway. <i>Bioconjugate Chemistry</i> , 2018 , 29, 136-148	6.3	28
54	Quantum dot display enhances activity of a phosphotriesterase trimer. <i>Chemical Communications</i> , 2015 , 51, 6403-6	5.8	27
53	Multimodal characterization of a linear DNA-based nanostructure. <i>ACS Nano</i> , 2012 , 6, 1026-43	16.7	27
52	Enhanced enzymatic activity from phosphotriesterase trimer gold nanoparticle bioconjugates for pesticide detection. <i>Analyst, The</i> , 2017 , 142, 3261-3271	5	26
51	Bayesian Network Resource for Meta-Analysis: Cellular Toxicity of Quantum Dots. <i>Small</i> , 2019 , 15, e1900510	15.1	25
50	Examining the Polyproline Nanoscopic Ruler in the Context of Quantum Dots. <i>Chemistry of Materials</i> , 2015 , 27, 6222-6237	9.6	25

49	Quantum Dot Encapsulation Using a Peptide-Modified Tetrahedral DNA Cage. <i>Chemistry of Materials</i> , 2017 , 29, 5762-5766	9.6	24
48	Bridging Lanthanide to Quantum Dot Energy Transfer with a Short-Lifetime Organic Dye. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2182-2188	6.4	22
47	Nanoparticle cellular uptake by dendritic wedge peptides: achieving single peptide facilitated delivery. <i>Nanoscale</i> , 2017 , 9, 10447-10464	7.7	22
46	Assembling high activity phosphotriesterase composites using hybrid nanoparticle peptide-DNA scaffolded architectures. <i>Nano Futures</i> , 2017 , 1, 011002	3.6	19
45	Nanoparticle Size Influences Localized Enzymatic Enhancement-A Case Study with Phosphotriesterase. <i>Bioconjugate Chemistry</i> , 2019 , 30, 2060-2074	6.3	18
44	Cholesterol Functionalization of Gold Nanoparticles Enhances Photoactivation of Neural Activity. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 1478-1487	5.7	18
43	A Quantum Dot-Protein Bioconjugate That Provides for Extracellular Control of Intracellular Drug Release. <i>Bioconjugate Chemistry</i> , 2018 , 29, 2455-2467	6.3	16
42	Efficient excitation of the TE(01) hollow metal waveguide mode for atom guiding. <i>Optics Express</i> , 2010 , 18, 323-32	3.3	15
41	One-pot aqueous phase growth of biocompatible 15-130 nm gold nanoparticles stabilized with bidentate PEG. <i>Journal of Colloid and Interface Science</i> , 2012 , 376, 107-11	9.3	14
40	Kinetic enhancement in high-activity enzyme complexes attached to nanoparticles. <i>Nanoscale Horizons</i> , 2017 , 2, 241-252	10.8	14
39	Femtosecond Laser Pulse Excitation of DNA-Labeled Gold Nanoparticles: Establishing a Quantitative Local Nanothermometer for Biological Applications. <i>ACS Nano</i> , 2020 , 14, 8570-8583	16.7	14
38	Nanoparticle-Peptide-Drug Bioconjugates for Unassisted Defeat of Multidrug Resistance in a Model Cancer Cell Line. <i>Bioconjugate Chemistry</i> , 2019 , 30, 525-530	6.3	13
37	Transducing Protease Activity into DNA Output for Developing Smart Bionanosensors. <i>Small</i> , 2019 , 15, e1805384	11	12
36	Utility of PEGylated dithiolane ligands for direct synthesis of water-soluble Au, Ag, Pt, Pd, Cu and AuPt nanoparticles. <i>Chemical Communications</i> , 2018 , 54, 1956-1959	5.8	12
35	Lipid Raft-Mediated Membrane Tethering and Delivery of Hydrophobic Cargos from Liquid Crystal-Based Nanocarriers. <i>Bioconjugate Chemistry</i> , 2016 , 27, 982-93	6.3	12
34	Probing the Quenching of Quantum Dot Photoluminescence by Peptide-Labeled Ruthenium(II) Complexes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9239-9250	3.8	12
33	Magnetic nanoclusters for ultrasensitive magnetophoretic assays. <i>Small</i> , 2009 , 5, 2243-6	11	12
32	Protein Kinase Assay on Peptide-Conjugated Gold Nanoparticles by Using Secondary-Ion Mass Spectrometric Imaging. <i>Angewandte Chemie</i> , 2007 , 119, 6940-6943	3.6	12

31	Conjugation of biotin-coated luminescent quantum dots with single domain antibody-rhizavidin fusions. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2016 , 10, 56-65	5.3	12
30	Hybrid Liquid Crystal Nanocarriers for Enhanced Zinc Phthalocyanine-Mediated Photodynamic Therapy. <i>Bioconjugate Chemistry</i> , 2018 , 29, 2701-2714	6.3	11
29	Modulation of Intracellular Quantum Dot to Fluorescent Protein Förster Resonance Energy Transfer via Customized Ligands and Spatial Control of Donor-Acceptor Assembly. <i>Sensors</i> , 2015 , 15, 30457-68	3.8	11
28	Nanoparticle-Based Energy Transfer for Rapid and Simple Detection of Protein Glycosylation. <i>Angewandte Chemie</i> , 2006 , 118, 8127-8131	3.6	11
27	Analyzing fidelity and reproducibility of DNA templated plasmonic nanostructures. <i>Nanoscale</i> , 2019 , 11, 20693-20706	7.7	11
26	DNA Nanoparticle Composites Synergistically Enhance Organophosphate Hydrolase Enzymatic Activity. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3091-3097	5.6	10
25	Gold nanoparticle-enhanced secondary ion mass spectrometry and its bio-applications. <i>Applied Surface Science</i> , 2008 , 255, 1064-1067	6.7	10
24	Exploring attachment chemistry with FRET in hybrid quantum dot dye-labeled DNA dendrimer composites. <i>Molecular Systems Design and Engineering</i> , 2018 , 3, 314-327	4.6	8
23	Direct and Efficient Conjugation of Quantum Dots to DNA Nanostructures with Peptide-PNA. <i>ACS Nano</i> , 2021 , 15, 9101-9110	16.7	8
22	A Multiparametric Evaluation of Quantum Dot Size and Surface-Grafted Peptide Density on Cellular Uptake and Cytotoxicity. <i>Bioconjugate Chemistry</i> , 2020 , 31, 1077-1087	6.3	7
21	Gold Nanoparticle Templating Increases the Catalytic Rate of an Amylase, Maltase, and Glucokinase Multienzyme Cascade through Substrate Channeling Independent of Surface Curvature. <i>ACS Catalysis</i> , 2021 , 11, 627-638	13.1	7
20	Fabrication of Photoluminescent Quantum Dot Thiol-yne Nanocomposites via Thermal Curing or Photopolymerization. <i>ACS Omega</i> , 2018 , 3, 3314-3320	3.9	6
19	Effects of shell thickness on the electric field dependence of exciton recombination in CdSe/CdS core/shell quantum dots. <i>Optical Materials Express</i> , 2017 , 7, 1871	2.6	5
18	Display of Potassium Channel Blocking Tertiapin-Q Peptides on Gold Nanoparticles Enhances Depolarization of Cellular Membrane Potential. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1800493	3.1	3
17	Gold-Nanoparticle-Mediated Depolarization of Membrane Potential Is Dependent on Concentration and Tethering Distance from the Plasma Membrane. <i>Bioconjugate Chemistry</i> , 2020 , 31, 567-576	6.3	3
16	Self-assembled nanoparticle-enzyme aggregates enhance functional protein production in pure transcription-translation systems.. <i>PLoS ONE</i> , 2022 , 17, e0265274	3.7	3
15	Anionic Conjugated Polyelectrolytes for FRET-based Imaging of Cellular Membrane Potential. <i>Photochemistry and Photobiology</i> , 2020 , 96, 834-844	3.6	2
14	Targeted Plasma Membrane Delivery of a Hydrophobic Cargo Encapsulated in a Liquid Crystal Nanoparticle Carrier. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	2

13	Polyhistidine-Tag-Enabled Conjugation of Quantum Dots and Enzymes to DNA Nanostructures. <i>Methods in Molecular Biology</i> , 2022 , 61-91	1.4	2
12	Semiconductor quantum dots as Förster resonance energy transfer donors for intracellularly-based biosensors 2017 ,		1
11	Modified kinetics of enzymes interacting with nanoparticles 2015 ,		1
10	Understanding the Enhanced Kinetics of Enzyme-Quantum Dot Constructs. <i>MRS Advances</i> , 2016 , 1, 3831-3836	3.36	1
9	Imaging cellular membrane potential through ionization of quantum dots 2016 ,		1
8	Recent development of dihydrolipoic acid appended ligands for robust and biocompatible quantum dots 2013 ,		1
7	The humanized nanobody RBD-1-2G tolerates the spike N501Y mutation to neutralize SARS-CoV-2 2021 ,		1
6	Liquid Crystal Nanoparticle Conjugates for Scavenging Reactive Oxygen Species in Live Cells. <i>Pharmaceuticals</i> , 2022 , 15, 604	5.2	1
5	Fluorescent quantum dots enable SARS-CoV-2 antiviral drug discovery and development. <i>Expert Opinion on Drug Discovery</i> , 2021 , 1-6	6.2	0
4	Affinity Immobilization of Semiconductor Quantum Dots and Metal Nanoparticles on Cellulose Paper Substrates. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 53462-53474	9.5	0
3	Excited-State Dynamics of Photoluminescent Gold Nanoclusters and Their Assemblies with Quantum Dot Donors. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12073-12085	3.8	0
2	In Situ Self-Assembly of Quantum Dots at the Plasma Membrane Mediates Energy Transfer-Based Activation of Channelrhodopsin. <i>Particle and Particle Systems Characterization</i> , 2021 , 38, 2100053	3.1	
1	Quantum dot-enabled membrane-tethering and enhanced photoactivation of chlorin-e6. <i>Journal of Nanoparticle Research</i> , 2021 , 23, 1	2.3	