

Yoon-Sik Lee

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108
papers

2,261
citations

27
h-index

42
g-index

115
ext. papers

2,639
ext. citations

6.8
avg, IF

4.82
L-index

#	Paper	IF	Citations
108	Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging. <i>Advanced Functional Materials</i> , 2012 , 22, 1843-1849	15.6	108
107	Direct transformation of cellulose into 5-hydroxymethyl-2-furfural using a combination of metal chlorides in imidazolium ionic liquid. <i>Green Chemistry</i> , 2011 , 13, 1503	10	108
106	Surface-enhanced Raman scattering-active nanostructures and strategies for bioassays. <i>Nanomedicine</i> , 2011 , 6, 1463-80	5.6	108
105	Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection. <i>Advanced Functional Materials</i> , 2013 , 23, 3719-3727	15.6	106
104	Single-step and rapid growth of silver nanoshells as SERS-active nanostructures for label-free detection of pesticides. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12541-9	9.5	105
103	Tyrosine-mediated two-dimensional peptide assembly and its role as a bio-inspired catalytic scaffold. <i>Nature Communications</i> , 2014 , 5, 3665	17.4	83
102	Tissue adhesive, rapid forming, and sprayable ECM hydrogel via recombinant tyrosinase crosslinking. <i>Biomaterials</i> , 2018 , 178, 401-412	15.6	69
101	Enhanced osteogenic commitment of murine mesenchymal stem cells on graphene oxide substrate. <i>Biomaterials Research</i> , 2018 , 22, 1	16.8	64
100	Application of supercritical water for green recycling of epoxy-based carbon fiber reinforced plastic. <i>Composites Science and Technology</i> , 2019 , 173, 66-72	8.6	63
99	Fluorescence-Raman dual modal endoscopic system for multiplexed molecular diagnostics. <i>Scientific Reports</i> , 2015 , 5, 9455	4.9	63
98	Target-specific near-IR induced drug release and photothermal therapy with accumulated Au/Ag hollow nanoshells on pulmonary cancer cell membranes. <i>Biomaterials</i> , 2015 , 45, 81-92	15.6	62
97	One-step synthesis of silver nanoshells with bumps for highly sensitive near-IR SERS nanoprobes. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 4415-4421	7.3	46
96	Ag shell-Au satellite hetero-nanostructure for ultra-sensitive, reproducible, and homogeneous NIR SERS activity. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11859-63	9.5	41
95	Encoding peptide sequences with surface-enhanced Raman spectroscopic nanoparticles. <i>Chemical Communications</i> , 2011 , 47, 2306-8	5.8	40
94	Antimicrobial properties of lignin-decorated thin multi-walled carbon nanotubes in poly(vinyl alcohol) nanocomposites. <i>European Polymer Journal</i> , 2018 , 105, 79-84	5.2	38
93	Multilayer Ag-Embedded Silica Nanostructure as a Surface-Enhanced Raman Scattering-Based Chemical Sensor with Dual-Function Internal Standards. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40748-40755	9.5	37
92	Glucose detection using 4-mercaptophenyl boronic acid-incorporated silver nanoparticles-embedded silica-coated graphene oxide as a SERS substrate. <i>Biochip Journal</i> , 2017 , 11, 46-56	4	36

91	Luminescent Graphene Oxide with a Peptide-Quencher Complex for Optical Detection of Cell-Secreted Proteases by a Turn-On Response. <i>Advanced Functional Materials</i> , 2014 , 24, 5119-5128	15.6	35
90	Highly sensitive and reliable SERS probes based on nanogap control of a AuAg alloy on silica nanoparticles. <i>RSC Advances</i> , 2017 , 7, 7015-7021	3.7	33
89	Boosting Aerobic Oxidation of Alcohols via Synergistic Effect between TEMPO and a Composite FeO/Cu-BDC/GO Nanocatalyst. <i>ACS Omega</i> , 2020 , 5, 5182-5191	3.9	33
88	Covalent Self-Assembly and One-Step Photocrosslinking of Tyrosine-Rich Oligopeptides to Form Diverse Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6925-8	16.4	31
87	Polymer-Supported Electron-Rich Oxime Palladacycle as an Efficient Heterogeneous Catalyst for the Suzuki Coupling Reaction. <i>Advanced Synthesis and Catalysis</i> , 2014 , 356, 1056-1064	5.6	30
86	Magnetic field induced aggregation of nanoparticles for sensitive molecular detection. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7298-303	3.6	30
85	Highly active organosilane-based N-heterocyclic carbene-palladium complex immobilized on silica particles for the Suzuki reaction. <i>Pure and Applied Chemistry</i> , 2007 , 79, 1553-1559	2.1	30
84	Enzyme-catalyzed Ag Growth on Au Nanoparticle-assembled Structure for Highly Sensitive Colorimetric Immunoassay. <i>Scientific Reports</i> , 2018 , 8, 6290	4.9	29
83	Heterogeneous zirconia-supported ruthenium catalyst for highly selective hydrogenation of 5-hydroxymethyl-2-furaldehyde to 2,5-bis(hydroxymethyl)furans in various n-alcohol solvents. <i>RSC Advances</i> , 2016 , 6, 93394-93397	3.7	29
82	Simultaneous Detection of EGFR and VEGF in Colorectal Cancer using Fluorescence-Raman Endoscopy. <i>Scientific Reports</i> , 2017 , 7, 1035	4.9	28
81	ECD Dimer-immobilized Ag Assembly Embedded Silica Nanoparticles for Sensitive Detection of Polycyclic Aromatic Hydrocarbons. <i>Scientific Reports</i> , 2016 , 6, 26082	4.9	26
80	A dual modal silver bumpy nanoprobe for photoacoustic imaging and SERS multiplexed identification of in vivo lymph nodes. <i>Nanoscale</i> , 2017 , 9, 12556-12564	7.7	25
79	Double-Layer Magnetic Nanoparticle-Embedded Silica Particles for Efficient Bio-Separation. <i>PLoS ONE</i> , 2015 , 10, e0143727	3.7	25
78	Highly robust and optimized conjugation of antibodies to nanoparticles using quantitatively validated protocols. <i>Nanoscale</i> , 2017 , 9, 2548-2555	7.7	24
77	Direct identification of on-bead peptides using surface-enhanced Raman spectroscopic barcoding system for high-throughput bioanalysis. <i>Scientific Reports</i> , 2015 , 5, 10144	4.9	24
76	Large scale synthesis of surface-enhanced Raman scattering nanoprobe with high reproducibility and long-term stability. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 33, 22-27	6.3	24
75	Super-insulating, flame-retardant, and flexible poly(dimethylsiloxane) composites based on silica aerogel. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 123, 108-113	8.4	20
74	Reaction Kinetics-Mediated Control over Silver Nanogap Shells as Surface-Enhanced Raman Scattering Nanoprobes for Detection of Alzheimer's Disease Biomarkers. <i>Small</i> , 2019 , 15, e1900613	11	20

73	Interaction of photothermal graphene networks with polymer chains and laser-driven photo-actuation behavior of shape memory polyurethane/epoxy/epoxy-functionalized graphene oxide nanocomposites. <i>Polymer</i> , 2019 , 181, 121791	3.9	20
72	Theranostic iRGD peptide containing cisplatin prodrug: Dual-cargo tumor penetration for improved imaging and therapy. <i>Journal of Controlled Release</i> , 2019 , 300, 73-80	11.7	20
71	Activatable iRGD-based peptide monolith: Targeting, internalization, and fluorescence activation for precise tumor imaging. <i>Journal of Controlled Release</i> , 2016 , 237, 177-184	11.7	19
70	Solid-Phase Synthesis of Biphenyls and Terphenyls by the Traceless Multifunctional Cleavage of Polymer-Bound Arenesulfonates. <i>European Journal of Organic Chemistry</i> , 2005 , 2005, 3177-3181	3.2	19
69	Gold-silver bimetallic nanoparticles with a Raman labeling chemical assembled on silica nanoparticles as an internal-standard-containing nanoprobe. <i>Journal of Alloys and Compounds</i> , 2019 , 779, 360-366	5.7	19
68	Assembly of Plasmonic and Magnetic Nanoparticles with Fluorescent Silica Shell Layer for Tri-functional SERS-Magnetic-Fluorescence Probes and Its Bioapplications. <i>Scientific Reports</i> , 2018 , 8, 13938	4.9	19
67	Starbon/High-Amylose Corn Starch-Supported N-Heterocyclic Carbene-Iron(III) Catalyst for Conversion of Fructose into 5-Hydroxymethylfurfural. <i>ChemSusChem</i> , 2018 , 11, 716-725	8.3	18
66	Proteolytic disassembly of peptide-mediated graphene oxide assemblies for turn-on fluorescence sensing of proteases. <i>Nanoscale</i> , 2016 , 8, 12272-81	7.7	18
65	Improvement in mechanical and thermal properties of polypropylene nanocomposites using an extremely small amount of alkyl chain-grafted hexagonal boron nitride nanosheets. <i>Polymer</i> , 2019 , 180, 121714	3.9	17
64	Proton Conduction in a Tyrosine-Rich Peptide/Manganese Oxide Hybrid Nanofilm. <i>Advanced Functional Materials</i> , 2017 , 27, 1702185	15.6	17
63	The effect of PEG groups on swelling properties of PEG-grafted-polystyrene resins in various solvents. <i>Reactive and Functional Polymers</i> , 2000 , 44, 41-46	4.6	17
62	Size effect of gold on Ag-coated Au nanoparticle-embedded silica nanospheres. <i>RSC Advances</i> , 2016 , 6, 48644-48650	3.7	16
61	Plasmon-enhanced dye-sensitized solar cells using SiO ₂ spheres decorated with tightly assembled silver nanoparticles. <i>RSC Advances</i> , 2014 , 4, 19851	3.7	15
60	Physically Transient Field-Effect Transistors Based on Black Phosphorus. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42630-42636	9.5	15
59	Recyclable, flame-retardant and smoke-suppressing tannic acid-based carbon-fiber-reinforced plastic. <i>Composites Part B: Engineering</i> , 2020 , 197, 108173	10	14
58	Highly Selective Catalytic Hydrogenation and Etherification of 5-Hydroxymethyl-2-furaldehyde to 2,5-Bis(alkoxymethyl)furans for Potential Biodiesel Production. <i>Synlett</i> , 2017 , 28, 2299-2302	2.2	14
57	Fabrication of mono-dispersed silica-coated quantum dot-assembled magnetic nanoparticles. <i>RSC Advances</i> , 2015 , 5, 32072-32077	3.7	13
56	Tailoring a Tyrosine-Rich Peptide into Size- and Thickness-Controllable Nanofilms. <i>ACS Omega</i> , 2018 , 3, 3901-3907	3.9	13

55	Synthesis of optically tunable bumpy silver nanoshells by changing the silica core size and their SERS activities. <i>RSC Advances</i> , 2017 , 7, 40255-40261	3.7	13
54	SERS-Based Flavonoid Detection Using Ethylenediamine- β -Cyclodextrin as a Capturing Ligand. <i>Nanomaterials</i> , 2017 , 7,	5.4	13
53	Improved immobilized enzyme systems using spherical micro silica sol-gel enzyme beads. <i>Biotechnology and Bioprocess Engineering</i> , 2006 , 11, 277-281	3.1	13
52	Facile Nondestructive Assembly of Tyrosine-Rich Peptide Nanofibers as a Biological Glue for Multicomponent-Based Nanoelectrode Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1705729	15.6	12
51	Proton-enabled activation of peptide materials for biological bimodal memory. <i>Nature Communications</i> , 2020 , 11, 5896	17.4	12
50	Tumor microenvironment-responsive fluorogenic nanoprobe for ratiometric dual-channel imaging of lymph node metastasis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 179, 9-16	6	11
49	Facile method of preparing silver-embedded polymer beads and their antibacterial effect. <i>Journal of Materials Science</i> , 2010 , 45, 3106-3108	4.3	11
48	Preparation of Core-Shell-Type Poly(ethylene glycol)-Grafted Polystyrene Resins and Their Characteristics in Solid-Phase Peptide Synthesis. <i>Macromolecular Chemistry and Physics</i> , 2002 , 203, 2211-2217	2.6	11
47	Effect of Alkylamines on Morphology Control of Silver Nanoshells for Highly Enhanced Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8374-8381	9.5	11
46	Silver Nanoparticle-Embedded Thin Silica-Coated Graphene Oxide as an SERS Substrate. <i>Nanomaterials</i> , 2016 , 6,	5.4	11
45	Redox-Active Tyrosine-Mediated Peptide Template for Large-Scale Single-Crystalline Two-Dimensional Silver Nanosheets. <i>ACS Nano</i> , 2020 , 14, 1738-1744	16.7	10
44	Preparation of plasmonic magnetic nanoparticles and their light scattering properties. <i>RSC Advances</i> , 2015 , 5, 21050-21053	3.7	10
43	Facile Synthesis of N-(9-Fluorenylmethyloxycarbonyl)-3-amino-3-(4,5-dimethoxy-2-nitrophenyl)propionic Acid as a Photocleavable Linker for Solid-Phase Peptide Synthesis. <i>Synlett</i> , 2013 , 24, 733-736	2.2	9
42	β -Lactoglobulin Peptide Fragments Conjugated with Caffeic Acid Displaying Dual Activities for Tyrosinase Inhibition and Antioxidant Effect. <i>Bioconjugate Chemistry</i> , 2018 , 29, 1000-1005	6.3	8
41	A tyrosine-rich peptide induced flower-like palladium nanostructure and its catalytic activity. <i>RSC Advances</i> , 2015 , 5, 78026-78029	3.7	7
40	Rapid remote actuation in shape memory hyperbranched polyurethane composites using cross-linked photothermal reduced graphene oxide networks. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128468	8.5	7
39	Highly Sensitive Magnetic-SERS Dual-Function Silica Nanoprobes for Effective On-Site Organic Chemical Detection. <i>Nanomaterials</i> , 2017 , 7,	5.4	7
38	Practical neutral aromatic nitration with nitrogen dioxide in the presence of heterogeneous catalysts under moderate oxygen pressure. <i>Research on Chemical Intermediates</i> , 2006 , 32, 759-766	2.8	7

37	Injectable Single-Component Peptide Depot: Autonomously Rechargeable Tumor Photosensitization for Repeated Photodynamic Therapy. <i>ACS Nano</i> , 2020 , 14, 15793-15805	16.7	7
36	Selective removal of anti-EGal antibodies from human serum by using synthetic EGal epitope on a core-shell type resin. <i>Biotechnology and Bioprocess Engineering</i> , 2008 , 13, 445-452	3.1	6
35	Increased electrical conductivity of peptides through annealing process. <i>APL Materials</i> , 2017 , 5, 086109	5.7	5
34	Dye-sensitized solar cells with silica-coated quantum dot-embedded nanoparticles used as a light-harvesting layer. <i>New Journal of Chemistry</i> , 2014 , 38, 910	3.6	5
33	Endoscopic imaging using surface-enhanced Raman scattering. <i>European Journal of Nanomedicine</i> , 2017 , 9,		5
32	A phase-reversible Pd containing sphere-to-bridge-shaped peptide nanostructure for cross-coupling reactions. <i>RSC Advances</i> , 2017 , 7, 33162-33165	3.7	5
31	Adenosine Triphosphate-Encapsulated Liposomes with Plasmonic Nanoparticles for Surface Enhanced Raman Scattering-Based Immunoassays. <i>Sensors</i> , 2017 , 17,	3.8	5
30	Caffeoyl-Pro-His amide relieve DNCB-Induced Atopic Dermatitis-Like phenotypes in BALB/c mice. <i>Scientific Reports</i> , 2020 , 10, 8417	4.9	5
29	Milk Protein-Derived Antioxidant Tetrapeptides as Potential Hypopigmenting Agents. <i>Antioxidants</i> , 2020 , 9,	7.1	5
28	Template-Assisted Plasmonic Nanogap Shells for Highly Enhanced Detection of Cancer Biomarkers. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
27	Production of Valuable Esters from Oleic Acid with a Porous Polymeric Acid Catalyst without Water Removal. <i>Synlett</i> , 2015 , 27, 29-32	2.2	4
26	Heterogeneous Transition-Metal-Free Alcohol Oxidation by Graphene Oxide Supported Iodoxybenzoic Acid in Water. <i>Synlett</i> , 2013 , 24, 2282-2286	2.2	4
25	Tyrosine-Rich Peptide Insulator for Rapidly Dissolving Transient Electronics. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000516	6.8	4
24	Solid-Phase Synthesis of Peptide-Conjugated Perylene Diimide Bolaamphiphile and Its Application in Photodynamic Therapy. <i>ACS Omega</i> , 2018 , 3, 5896-5902	3.9	4
23	Effect of alpha-resorcylic acid-L-phenylalanine amide on collagen synthesis and matrix metalloproteinase expression in fibroblasts. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 742-5	2.9	3
22	Solid Phase Synthesis of an Analogue of Insulin, A0:R glargine, That Exhibits Decreased Mitogenic Activity. <i>International Journal of Peptide Research and Therapeutics</i> , 2010 , 16, 153-158	2.1	3
21	Nickel-catalyzed cross-coupling of bromophenols with Grignard reagents in the solid phase synthesis. <i>Molecular Diversity</i> , 2000 , 5, 57-60	3.1	3
20	Graphene oxide film guided skeletal muscle differentiation. <i>Materials Science and Engineering C</i> , 2021 , 126, 112174	8.3	3

19	Fully Degradable Memristors and Humidity Sensors Based on a Tyrosine-Rich Peptide. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3372-3378	4	3
18	Corrigendum to "Target-specific near-IR induced drug release and photothermal therapy with accumulated Au/Ag hollow nanoshells on pulmonary cancer cell membranes" [Biomaterials 45 (2015) 81-92]. <i>Biomaterials</i> , 2015 , 65, 124-125	15.6	2
17	Efficient Synthesis and Characterization of Monoprotected Symmetrical Poly(Ethylene Glycol) Diamine. <i>Bulletin of the Korean Chemical Society</i> , 2018 , 39, 29-32	1.2	2
16	Simple and sensitive method of microcantilever-based DNA detection using nanoparticles conjugates 2008 ,		2
15	Preparation of tri(ethylene glycol) grafted core-shell type polymer support for solid-phase peptide synthesis. <i>Journal of Peptide Science</i> , 2018 , 24, e3061	2.1	1
14	Nanoslit-concentration-chip integrated microbead-based protein assay system for sensitive and quantitative detection. <i>RSC Advances</i> , 2017 , 7, 29679-29685	3.7	1
13	Nanoprobes: Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection (Adv. Funct. Mater. 30/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 3828-3828	15.6	1
12	Adsorption characteristics of direct blue 78 onto polyethylene glycol grafted polystyrene resin. <i>Separation Science and Technology</i> , 2002 , 37, 2405-2419	2.5	1
11	Protein patterning by virtual mask photolithography using micromirror array		1
10	Bioapplications of Nanomaterials. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1309, 235-255	3.6	1
9	Introduction of Nanobiotechnology. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1309, 1-22	3.6	1
8	Synaptic transistors based on a tyrosine-rich peptide for neuromorphic computing.. <i>RSC Advances</i> , 2021 , 11, 39619-39624	3.7	0
7	Humidity-induced synaptic plasticity of ZnO artificial synapses using peptide insulator for neuromorphic computing. <i>Journal of Materials Science and Technology</i> , 2022 , 119, 150-155	9.1	0
6	Antibody-Based Therapeutics: Ultrasensitive NIR-SERRS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation (Adv. Healthcare Mater. 4/2018). <i>Advanced Healthcare Materials</i> , 2018 , 7, 1870019	10.1	
5	Quantum Dots: Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging (Adv. Funct. Mater. 9/2012). <i>Advanced Functional Materials</i> , 2012 , 22, 1774-1774	15.6	
4	Facile Synthetic Method of Alkanethiol Spacer for Biointerface. <i>Synlett</i> , 2012 , 24, 20-23	2.2	
3	Application of Nanotechnology into Life Science: Benefit or Risk491-501		
2	Räktitelbild: Covalent Self-Assembly and One-Step Photocrosslinking of Tyrosine-Rich Oligopeptides to Form Diverse Nanostructures (Angew. Chem. 24/2016). <i>Angewandte Chemie</i> , 2016 , 128, 7122-7122	3.6	

- 1 Conclusion and Perspective. *Advances in Experimental Medicine and Biology*, **2021**, 1309, 289-292 3.6