

Yoon-Sik Lee

List of Publications by Year in descending order

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112
papers

3,077
citations

147801

31
h-index

189892

50
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115
all docs

115
docs citations

115
times ranked

5055
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	10.7	11
2	Bioapplications of Nanomaterials. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1309, 235-255.	1.6	3
3	Conclusion and Perspective. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1309, 289-292.	1.6	0
4	Template-Assisted Plasmonic Nanogap Shells for Highly Enhanced Detection of Cancer Biomarkers. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1752.	4.1	14
5	Synthesis of Caffeoyl-Prolyl-Histidyl-Xaa Derivatives and Evaluation of Their Activities and Stability upon Long-Term Storage. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6301.	4.1	0
6	Graphene oxide film guided skeletal muscle differentiation. <i>Materials Science and Engineering C</i> , 2021, 126, 112174.	7.3	9
7	Fully Degradable Memristors and Humidity Sensors Based on a Tyrosine-Rich Peptide. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3372-3378.	4.3	14
8	Introduction of Nanobiotechnology. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1309, 1-22.	1.6	4
9	Synaptic transistors based on a tyrosine-rich peptide for neuromorphic computing. <i>RSC Advances</i> , 2021, 11, 39619-39624.	3.6	2
10	Milk Protein-Derived Antioxidant Tetrapeptides as Potential Hypopigmenting Agents. <i>Antioxidants</i> , 2020, 9, 1106.	5.1	13
11	Proton-enabled activation of peptide materials for biological bimodal memory. <i>Nature Communications</i> , 2020, 11, 5896.	12.8	36
12	Injectable Single-Component Peptide Depot: Autonomously Rechargeable Tumor Photosensitization for Repeated Photodynamic Therapy. <i>ACS Nano</i> , 2020, 14, 15793-15805.	14.6	22
13	Tyrosine-Rich Peptide Insulator for Rapidly Dissolving Transient Electronics. <i>Advanced Materials Technologies</i> , 2020, 5, 2000516.	5.8	7
14	Recyclable, flame-retardant and smoke-suppressing tannic acid-based carbon-fiber-reinforced plastic. <i>Composites Part B: Engineering</i> , 2020, 197, 108173.	12.0	26
15	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.	7.8	18
16	Boosting Aerobic Oxidation of Alcohols via Synergistic Effect between TEMPO and a Composite Fe ₃ O ₄ /Cu-BDC/GO Nanocatalyst. <i>ACS Omega</i> , 2020, 5, 5182-5191.	3.5	73
17	Redox-Active Tyrosine-Mediated Peptide Template for Large-Scale Single-Crystalline Two-Dimensional Silver Nanosheets. <i>ACS Nano</i> , 2020, 14, 1738-1744.	14.6	16
18	Caffeoyl-Pro-His amide relieve DNCB-Induced Atopic Dermatitis-Like phenotypes in BALB/c mice. <i>Scientific Reports</i> , 2020, 10, 8417.	3.3	17

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19	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.	3.8	30
20	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.	3.8	28
21	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.	7.6	48
22	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.	10.0	39
23	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.	5.0	16
24	Application of supercritical water for green recycling of epoxy-based carbon fiber reinforced plastic. <i>Composites Science and Technology</i> , 2019, 173, 66-72.	7.8	117
25	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.	9.9	30
26	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.	5.5	29
27	Effect of Alkylamines on Morphology Control of Silver Nanoshells for Highly Enhanced Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8374-8381.	8.0	21
28	Enzyme-catalyzed Ag Growth on Au Nanoparticle-assembled Structure for Highly Sensitive Colorimetric Immunoassay. <i>Scientific Reports</i> , 2018, 8, 6290.	3.3	44
29	Tailoring a Tyrosine-Rich Peptide into Size- and Thickness-Controllable Nanofilms. <i>ACS Omega</i> , 2018, 3, 3901-3907.	3.5	17
30	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.	14.9	18
31	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.	6.8	23
32	Efficient Synthesis and Characterization of Monoprotected Symmetrical Poly(Ethylene Glycol) Diamine. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 29-32.	1.9	4
33	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.	1.4	1
34	Antibody-Based Therapeutics: Ultrasensitive NIR-SERS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation (Adv. Healthcare Mater. 4/2018). <i>Advanced Healthcare Materials</i> , 2018, 7, 1870019.	7.6	0
35	Tissue adhesive, rapid forming, and sprayable ECM hydrogel via recombinant tyrosinase crosslinking. <i>Biomaterials</i> , 2018, 178, 401-412.	11.4	109
36	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.	3.6	16

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37	Physically Transient Field-Effect Transistors Based on Black Phosphorus. ACS Applied Materials & Interfaces, 2018, 10, 42630-42636.	8.0	22
38	Multilayer Ag-Embedded Silica Nanostructure as a Surface-Enhanced Raman Scattering-Based Chemical Sensor with Dual-Function Internal Standards. ACS Applied Materials & Interfaces, 2018, 10, 40748-40755.	8.0	49
39	Assembly of Plasmonic and Magnetic Nanoparticles with Fluorescent Silica Shell Layer for Tri-functional SERS-Magnetic-Fluorescence Probes and Its Bioapplications. Scientific Reports, 2018, 8, 13938.	3.3	30
40	Antimicrobial properties of lignin-decorated thin multi-walled carbon nanotubes in poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	5.4	49
41	Solid-Phase Synthesis of Peptide-Conjugated Perylene Diimide Bolaamphiphile and Its Application in Photodynamic Therapy. ACS Omega, 2018, 3, 5896-5902.	3.5	9
42	Enhanced osteogenic commitment of murine mesenchymal stem cells on graphene oxide substrate. Biomaterials Research, 2018, 22, 1.	6.9	116
43	Highly robust and optimized conjugation of antibodies to nanoparticles using quantitatively validated protocols. Nanoscale, 2017, 9, 2548-2555.	5.6	39
44	Highly sensitive and reliable SERS probes based on nanogap control of a Au@Ag alloy on silica nanoparticles. RSC Advances, 2017, 7, 7015-7021.	3.6	45
45	Increased electrical conductivity of peptides through annealing process. APL Materials, 2017, 5, .	5.1	9
46	Synthesis of optically tunable bumpy silver nanoshells by changing the silica core size and their SERS activities. RSC Advances, 2017, 7, 40255-40261.	3.6	15
47	Endoscopic imaging using surface-enhanced Raman scattering. European Journal of Nanomedicine, 2017, 9, .	0.6	5
48	Highly Selective Catalytic Hydrogenation and Etherification of 5-Hydroxymethyl-2-furaldehyde to 2,5-Bis(alkoxymethyl)furans for Potential Biodiesel Production. Synlett, 2017, 28, 2299-2302.	1.8	21
49	A dual modal silver bumpy nanoprobe for photoacoustic imaging and SERS multiplexed identification of in vivo lymph nodes. Nanoscale, 2017, 9, 12556-12564.	5.6	28
50	Proton Conduction in a Tyrosine-Rich Peptide/Manganese Oxide Hybrid Nanofilm. Advanced Functional Materials, 2017, 27, 1702185.	14.9	23
51	A phase-reversible Pd containing sphere-to-bridge-shaped peptide nanostructure for cross-coupling reactions. RSC Advances, 2017, 7, 33162-33165.	3.6	5
52	Simultaneous Detection of EGFR and VEGF in Colorectal Cancer using Fluorescence-Raman Endoscopy. Scientific Reports, 2017, 7, 1035.	3.3	33
53	Glucose detection using 4-mercaptophenyl boronic acid-incorporated silver nanoparticles-embedded silica-coated graphene oxide as a SERS substrate. Biochip Journal, 2017, 11, 46-56.	4.9	43
54	Nanoslit-concentration-chip integrated microbead-based protein assay system for sensitive and quantitative detection. RSC Advances, 2017, 7, 29679-29685.	3.6	1

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55	SERS-Based Flavonoid Detection Using Ethylenediamine- β -Cyclodextrin as a Capturing Ligand. <i>Nanomaterials</i> , 2017, 7, 8.	4.1	17
56	Highly Sensitive Magnetic-SERS Dual-Function Silica Nanoprobes for Effective On-Site Organic Chemical Detection. <i>Nanomaterials</i> , 2017, 7, 146.	4.1	8
57	Adenosine Triphosphate-Encapsulated Liposomes with Plasmonic Nanoparticles for Surface Enhanced Raman Scattering-Based Immunoassays. <i>Sensors</i> , 2017, 17, 1480.	3.8	8
58	Silver Nanoparticle-Embedded Thin Silica-Coated Graphene Oxide as an SERS Substrate. <i>Nanomaterials</i> , 2016, 6, 176.	4.1	13
59	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.	2.0	0
60	Proteolytic disassembly of peptide-mediated graphene oxide assemblies for turn-on fluorescence sensing of proteases. <i>Nanoscale</i> , 2016, 8, 12272-12281.	5.6	19
61	Size effect of gold on Ag-coated Au nanoparticle-embedded silica nanospheres. <i>RSC Advances</i> , 2016, 6, 48644-48650.	3.6	19
62	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.	3.6	41
63	β -CD Dimer-immobilized Ag Assembly Embedded Silica Nanoparticles for Sensitive Detection of Polycyclic Aromatic Hydrocarbons. <i>Scientific Reports</i> , 2016, 6, 26082.	3.3	31
64	Activatable iRGD-based peptide monolith: Targeting, internalization, and fluorescence activation for precise tumor imaging. <i>Journal of Controlled Release</i> , 2016, 237, 177-184.	9.9	28
65	Covalent Self-Assembly and One-Step Photocrosslinking of Tyrosine-Rich Oligopeptides to Form Diverse Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6925-6928.	13.8	46
66	Large scale synthesis of surface-enhanced Raman scattering nanoprobes with high reproducibility and long-term stability. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 33, 22-27.	5.8	34
67	Production of Valuable Esters from Oleic Acid with a Porous Polymeric Acid Catalyst without Water Removal. <i>Synlett</i> , 2015, 27, 29-32.	1.8	5
68	Preparation of plasmonic magnetic nanoparticles and their light scattering properties. <i>RSC Advances</i> , 2015, 5, 21050-21053.	3.6	12
69	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.	11.4	69
70	Direct Identification of On-Bead Peptides Using Surface-Enhanced Raman Spectroscopic Barcoding System for High-Throughput Bioanalysis. <i>Scientific Reports</i> , 2015, 5, 10144.	3.3	29
71	Fabrication of mono-dispersed silica-coated quantum dot-assembled magnetic nanoparticles. <i>RSC Advances</i> , 2015, 5, 32072-32077.	3.6	13
72	Fluorescence-Raman Dual Modal Endoscopic System for Multiplexed Molecular Diagnostics. <i>Scientific Reports</i> , 2015, 5, 9455.	3.3	73

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73	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]. Biomaterials, 2015, 65, 124-125.	11.4	3
74	A tyrosine-rich peptide induced flower-like palladium nanostructure and its catalytic activity. RSC Advances, 2015, 5, 78026-78029.	3.6	9
75	Double-Layer Magnetic Nanoparticle-Embedded Silica Particles for Efficient Bio-Separation. PLoS ONE, 2015, 10, e0143727.	2.5	27
76	Luminescent Graphene Oxide with a Peptide-Quencher Complex for Optical Detection of Cell-Secreted Proteases by a Turn-On Response. Advanced Functional Materials, 2014, 24, 5119-5128.	14.9	38
77	Effect of alpha-resorcylic acid-L-phenylalanine amide on collagen synthesis and matrix metalloproteinase expression in fibroblasts. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 742-745.	2.2	3
78	Polymer-Supported Electron-Rich Oxime Palladacycle as an Efficient Heterogeneous Catalyst for the Suzuki Coupling Reaction. Advanced Synthesis and Catalysis, 2014, 356, 1056-1064.	4.3	31
79	Tyrosine-mediated two-dimensional peptide assembly and its role as a bio-inspired catalytic scaffold. Nature Communications, 2014, 5, 3665.	12.8	98
80	One-step synthesis of silver nanoshells with bumps for highly sensitive near-IR SERS nanoprobe. Journal of Materials Chemistry B, 2014, 2, 4415-4421.	5.8	51
81	Ag Shell-Au Satellite Hetero-Nanostructure for Ultra-Sensitive, Reproducible, and Homogeneous NIR SERS Activity. ACS Applied Materials & Interfaces, 2014, 6, 11859-11863.	8.0	49
82	Plasmon-enhanced dye-sensitized solar cells using SiO ₂ spheres decorated with tightly assembled silver nanoparticles. RSC Advances, 2014, 4, 19851.	3.6	17
83	Single-Step and Rapid Growth of Silver Nanoshells as SERS-Active Nanostructures for Label-Free Detection of Pesticides. ACS Applied Materials & Interfaces, 2014, 6, 12541-12549.	8.0	130
84	Dye-sensitized solar cells with silica-coated quantum dot-embedded nanoparticles used as a light-harvesting layer. New Journal of Chemistry, 2014, 38, 910.	2.8	5
85	Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection. Advanced Functional Materials, 2013, 23, 3719-3727.	14.9	121
86	Heterogeneous Transition-Metal-Free Alcohol Oxidation by Graphene Oxide Supported Iodoxybenzoic Acid in Water. Synlett, 2013, 24, 2282-2286.	1.8	5
87	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. Synlett, 2013, 24, 733-736.	1.8	12
88	Nanoprobes: Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection (Adv. Funct. Mater. 30/2013). Advanced Functional Materials, 2013, 23, 3828-3828.	14.9	2
89	Facile Synthetic Method of Alkanethiol Spacer for Biointerface. Synlett, 2012, 24, 20-23.	1.8	0
90	Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging. Advanced Functional Materials, 2012, 22, 1843-1849.	14.9	123

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91	Quantum Dots: Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging (Adv. Funct. Mater. 9/2012). Advanced Functional Materials, 2012, 22, 1774-1774.	14.9	0
92	Direct transformation of cellulose into 5-hydroxymethyl-2-furfural using a combination of metal chlorides in imidazolium ionic liquid. Green Chemistry, 2011, 13, 1503.	9.0	118
93	Encoding peptide sequences with surface-enhanced Raman spectroscopic nanoparticles. Chemical Communications, 2011, 47, 2306-2308.	4.1	47
94	Surface-enhanced Raman scattering-active nanostructures and strategies for bioassays. Nanomedicine, 2011, 6, 1463-1480.	3.3	127
95	Magnetic field induced aggregation of nanoparticles for sensitive molecular detection. Physical Chemistry Chemical Physics, 2011, 13, 7298.	2.8	32
96	Facile method of preparing silver-embedded polymer beads and their antibacterial effect. Journal of Materials Science, 2010, 45, 3106-3108.	3.7	11
97	Solid Phase Synthesis of an Analogue of Insulin, A0:R glargine, That Exhibits Decreased Mitogenic Activity. International Journal of Peptide Research and Therapeutics, 2010, 16, 153-158.	1.9	4
98	Selective removal of anti-Î±-Gal antibodies from human serum by using synthetic Î±-Gal epitope on a core-shell type resin. Biotechnology and Bioprocess Engineering, 2008, 13, 445-452.	2.6	6
99	Simple and sensitive method of microcantilever-based DNA detection using nanoparticles conjugates. , 2008, , .		2
100	Highly active organosilane-based N-heterocyclic carbene-palladium complex immobilized on silica particles for the Suzuki reaction. Pure and Applied Chemistry, 2007, 79, 1553-1559.	1.9	31
101	Enhancement method of limit of frequency resolution using magnetic bead on the microcantilever. , 2006, , .		0
102	Practical neutral aromatic nitration with nitrogen dioxide in the presence of heterogeneous catalysts under moderate oxygen pressure. Research on Chemical Intermediates, 2006, 32, 759-766.	2.7	10
103	Improved immobilized enzyme systems using spherical micro silica sol-gel enzyme beads. Biotechnology and Bioprocess Engineering, 2006, 11, 277-281.	2.6	13
104	Solid-Phase Synthesis of Biphenyls and Terphenyls by the Traceless Multifunctional Cleavage of Polymer-Bound Arenesulfonates. European Journal of Organic Chemistry, 2005, 2005, 3177-3181.	2.4	21
105	Adsorption characteristics of direct blue 78 onto polyethylene glycol grafted polystyrene resin. Separation Science and Technology, 2002, 37, 2405-2419.	2.5	2
106	Preparation of Core-Shell-Type Poly(ethylene glycol)-Grafted Polystyrene Resins and Their Characteristics in Solid-Phase Peptide Synthesis. Macromolecular Chemistry and Physics, 2002, 203, 2211-2217.	2.2	13
107	The effect of PEG groups on swelling properties of PEG-grafted-polystyrene resins in various solvents. Reactive and Functional Polymers, 2000, 44, 41-46.	4.1	23
108	Nickel-catalyzed cross-coupling of bromophenols with Grignard reagents in the solid phase synthesis. Molecular Diversity, 2000, 5, 57-60.	3.9	4

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109	Micro biomedical diagnostic system for endoscopic microcapsule. , 0, , .		0
110	Protein patterning by virtual mask photolithography using micromirror array. , 0, , .		1
111	Single crystalline silicon micromirror array for peptide synthesis applications. , 0, , .		0
112	Application of Nanotechnology into Life Science: Benefit or Risk. , 0, , 491-501.		0