

# Yoon-Sik Lee

## List of Publications by Year in descending order

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112  
papers

3,077  
citations

147566

31  
h-index

189595

50  
g-index

115  
all docs

115  
docs citations

115  
times ranked

5055  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Step and Rapid Growth of Silver Nanoshells as SERS-Active Nanostructures for Label-Free Detection of Pesticides. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 12541-12549.	4.0	130
2	Surface-enhanced Raman scattering-active nanostructures and strategies for bioassays. <i>Nanomedicine</i> , 2011, 6, 1463-1480.	1.7	127
3	Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging. <i>Advanced Functional Materials</i> , 2012, 22, 1843-1849.	7.8	123
4	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.	7.8	121
5	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.	4.6	118
6	Application of supercritical water for green recycling of epoxy-based carbon fiber reinforced plastic. <i>Composites Science and Technology</i> , 2019, 173, 66-72.	3.8	117
7	Enhanced osteogenic commitment of murine mesenchymal stem cells on graphene oxide substrate. <i>Biomaterials Research</i> , 2018, 22, 1.	3.2	116
8	Tissue adhesive, rapid forming, and sprayable ECM hydrogel via recombinant tyrosinase crosslinking. <i>Biomaterials</i> , 2018, 178, 401-412.	5.7	109
9	Tyrosine-mediated two-dimensional peptide assembly and its role as a bio-inspired catalytic scaffold. <i>Nature Communications</i> , 2014, 5, 3665.	5.8	98
10	Fluorescence-Raman Dual Modal Endoscopic System for Multiplexed Molecular Diagnostics. <i>Scientific Reports</i> , 2015, 5, 9455.	1.6	73
11	Boosting Aerobic Oxidation of Alcohols via Synergistic Effect between TEMPO and a Composite Fe <sub>3</sub> O <sub>4</sub> /Cu-BDC/GO Nanocatalyst. <i>ACS Omega</i> , 2020, 5, 5182-5191.	1.6	73
12	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.	5.7	69
13	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.	2.9	51
14	Ag Shell-Au Satellite Hetero-Nanostructure for Ultra-Sensitive, Reproducible, and Homogeneous NIR SERS Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 11859-11863.	4.0	49
15	Multilayer Ag-Embedded Silica Nanostructure as a Surface-Enhanced Raman Scattering-Based Chemical Sensor with Dual-Function Internal Standards. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 40748-40755.	4.0	49
16	Antimicrobial properties of lignin-decorated thin multi-walled carbon nanotubes in poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	2.6	49
17	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.	3.8	48
18	Encoding peptide sequences with surface-enhanced Raman spectroscopic nanoparticles. <i>Chemical Communications</i> , 2011, 47, 2306-2308.	2.2	47

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19	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.	7.2	46
20	Highly sensitive and reliable SERS probes based on nanogap control of a Au-Ag alloy on silica nanoparticles. <i>RSC Advances</i> , 2017, 7, 7015-7021.	1.7	45
21	Enzyme-catalyzed Ag Growth on Au Nanoparticle-assembled Structure for Highly Sensitive Colorimetric Immunoassay. <i>Scientific Reports</i> , 2018, 8, 6290.	1.6	44
22	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.	2.5	43
23	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.	1.7	41
24	Highly robust and optimized conjugation of antibodies to nanoparticles using quantitatively validated protocols. <i>Nanoscale</i> , 2017, 9, 2548-2555.	2.8	39
25	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.	5.2	39
26	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.	7.8	38
27	Proton-enabled activation of peptide materials for biological bimodal memory. <i>Nature Communications</i> , 2020, 11, 5896.	5.8	36
28	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.	2.9	34
29	Simultaneous Detection of EGFR and VEGF in Colorectal Cancer using Fluorescence-Raman Endoscopy. <i>Scientific Reports</i> , 2017, 7, 1035.	1.6	33
30	Magnetic field induced aggregation of nanoparticles for sensitive molecular detection. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7298.	1.3	32
31	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.	0.9	31
32	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.	2.1	31
33	$\beta$ -CD Dimer-immobilized Ag Assembly Embedded Silica Nanoparticles for Sensitive Detection of Polycyclic Aromatic Hydrocarbons. <i>Scientific Reports</i> , 2016, 6, 26082.	1.6	31
34	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.	1.6	30
35	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.	1.8	30
36	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.	4.8	30

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37	Direct Identification of On-Bead Peptides Using Surface-Enhanced Raman Spectroscopic Barcoding System for High-Throughput Bioanalysis. <i>Scientific Reports</i> , 2015, 5, 10144.	1.6	29
38	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.	2.8	29
39	Activatable iRGD-based peptide monolith: Targeting, internalization, and fluorescence activation for precise tumor imaging. <i>Journal of Controlled Release</i> , 2016, 237, 177-184.	4.8	28
40	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.	2.8	28
41	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.	1.8	28
42	Double-Layer Magnetic Nanoparticle-Embedded Silica Particles for Efficient Bio-Separation. <i>PLoS ONE</i> , 2015, 10, e0143727.	1.1	27
43	Recyclable, flame-retardant and smoke-suppressing tannic acid-based carbon-fiber-reinforced plastic. <i>Composites Part B: Engineering</i> , 2020, 197, 108173.	5.9	26
44	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.	2.0	23
45	Proton Conduction in a Tyrosine-Rich Peptide/Manganese Oxide Hybrid Nanofilm. <i>Advanced Functional Materials</i> , 2017, 27, 1702185.	7.8	23
46	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.	3.6	23
47	Physically Transient Field-Effect Transistors Based on Black Phosphorus. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42630-42636.	4.0	22
48	Injectable Single-Component Peptide Depot: Autonomously Rechargeable Tumor Photosensitization for Repeated Photodynamic Therapy. <i>ACS Nano</i> , 2020, 14, 15793-15805.	7.3	22
49	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.	1.2	21
50	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.	1.0	21
51	Effect of Alkylamines on Morphology Control of Silver Nanoshells for Highly Enhanced Raman Scattering. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8374-8381.	4.0	21
52	Proteolytic disassembly of peptide-mediated graphene oxide assemblies for turn-on fluorescence sensing of proteases. <i>Nanoscale</i> , 2016, 8, 12272-12281.	2.8	19
53	Size effect of gold on Ag-coated Au nanoparticle-embedded silica nanospheres. <i>RSC Advances</i> , 2016, 6, 48644-48650.	1.7	19
54	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.	7.8	18

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55	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.	4.0	18
56	Plasmon-enhanced dye-sensitized solar cells using SiO <sub>2</sub> spheres decorated with tightly assembled silver nanoparticles. <i>RSC Advances</i> , 2014, 4, 19851.	1.7	17
57	SERS-Based Flavonoid Detection Using Ethylenediamine- $\beta$ -Cyclodextrin as a Capturing Ligand. <i>Nanomaterials</i> , 2017, 7, 8.	1.9	17
58	Tailoring a Tyrosine-Rich Peptide into Size- and Thickness-Controllable Nanofilms. <i>ACS Omega</i> , 2018, 3, 3901-3907.	1.6	17
59	Caffeoyl-Pro-His amide relieve DNCB-Induced Atopic Dermatitis-Like phenotypes in BALB/c mice. <i>Scientific Reports</i> , 2020, 10, 8417.	1.6	17
60	$\beta$ -Lactoglobulin Peptide Fragments Conjugated with Caffeic Acid Displaying Dual Activities for Tyrosinase Inhibition and Antioxidant Effect. <i>Bioconjugate Chemistry</i> , 2018, 29, 1000-1005.	1.8	16
61	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.	2.5	16
62	Redox-Active Tyrosine-Mediated Peptide Template for Large-Scale Single-Crystalline Two-Dimensional Silver Nanosheets. <i>ACS Nano</i> , 2020, 14, 1738-1744.	7.3	16
63	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.	1.7	15
64	Template-Assisted Plasmonic Nanogap Shells for Highly Enhanced Detection of Cancer Biomarkers. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1752.	1.8	14
65	Fully Degradable Memristors and Humidity Sensors Based on a Tyrosine-Rich Peptide. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3372-3378.	2.0	14
66	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.	1.1	13
67	Improved immobilized enzyme systems using spherical micro silica sol-gel enzyme beads. <i>Biotechnology and Bioprocess Engineering</i> , 2006, 11, 277-281.	1.4	13
68	Fabrication of mono-dispersed silica-coated quantum dot-assembled magnetic nanoparticles. <i>RSC Advances</i> , 2015, 5, 32072-32077.	1.7	13
69	Silver Nanoparticle-Embedded Thin Silica-Coated Graphene Oxide as an SERS Substrate. <i>Nanomaterials</i> , 2016, 6, 176.	1.9	13
70	Milk Protein-Derived Antioxidant Tetrapeptides as Potential Hypopigmenting Agents. <i>Antioxidants</i> , 2020, 9, 1106.	2.2	13
71	Facile Synthesis of N-(9-Fluorenylmethoxycarbonyl)-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.	1.0	12
72	Preparation of plasmonic magnetic nanoparticles and their light scattering properties. <i>RSC Advances</i> , 2015, 5, 21050-21053.	1.7	12

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73	Facile method of preparing silver-embedded polymer beads and their antibacterial effect. <i>Journal of Materials Science</i> , 2010, 45, 3106-3108.	1.7	11
74	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.	5.6	11
75	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.	1.3	10
76	A tyrosine-rich peptide induced flower-like palladium nanostructure and its catalytic activity. <i>RSC Advances</i> , 2015, 5, 78026-78029.	1.7	9
77	Increased electrical conductivity of peptides through annealing process. <i>APL Materials</i> , 2017, 5, .	2.2	9
78	Solid-Phase Synthesis of Peptide-Conjugated Perylene Diimide Bolaamphiphile and Its Application in Photodynamic Therapy. <i>ACS Omega</i> , 2018, 3, 5896-5902.	1.6	9
79	Graphene oxide film guided skeletal muscle differentiation. <i>Materials Science and Engineering C</i> , 2021, 126, 112174.	3.8	9
80	Highly Sensitive Magnetic-SERS Dual-Function Silica Nanoprobes for Effective On-Site Organic Chemical Detection. <i>Nanomaterials</i> , 2017, 7, 146.	1.9	8
81	Adenosine Triphosphate-Encapsulated Liposomes with Plasmonic Nanoparticles for Surface Enhanced Raman Scattering-Based Immunoassays. <i>Sensors</i> , 2017, 17, 1480.	2.1	8
82	Tyrosine-Rich Peptide Insulator for Rapidly Dissolving Transient Electronics. <i>Advanced Materials Technologies</i> , 2020, 5, 2000516.	3.0	7
83	Selective removal of anti- $\beta$ -Gal antibodies from human serum by using synthetic $\beta$ -Gal epitope on a core-shell type resin. <i>Biotechnology and Bioprocess Engineering</i> , 2008, 13, 445-452.	1.4	6
84	Heterogeneous Transition-Metal-Free Alcohol Oxidation by Graphene Oxide Supported Iodoxybenzoic Acid in Water. <i>Synlett</i> , 2013, 24, 2282-2286.	1.0	5
85	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.	1.4	5
86	Production of Valuable Esters from Oleic Acid with a Porous Polymeric Acid Catalyst without Water Removal. <i>Synlett</i> , 2015, 27, 29-32.	1.0	5
87	Endoscopic imaging using surface-enhanced Raman scattering. <i>European Journal of Nanomedicine</i> , 2017, 9, .	0.6	5
88	A phase-reversible Pd containing sphere-to-bridge-shaped peptide nanostructure for cross-coupling reactions. <i>RSC Advances</i> , 2017, 7, 33162-33165.	1.7	5
89	Nickel-catalyzed cross-coupling of bromophenols with Grignard reagents in the solid phase synthesis. <i>Molecular Diversity</i> , 2000, 5, 57-60.	2.1	4
90	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.	0.9	4

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91	Efficient Synthesis and Characterization of Monoprotected Symmetrical Poly(Ethylene Glycol) Diamine. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 29-32.	1.0	4
92	Introduction of Nanobiotechnology. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1309, 1-22.	0.8	4
93	Effect of alpha-resorcylic acid <sup>l</sup> -phenylalanine amide on collagen synthesis and matrix metalloproteinase expression in fibroblasts. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 742-745.	1.0	3
94	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.	5.7	3
95	Bioapplications of Nanomaterials. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1309, 235-255.	0.8	3
96	Adsorption characteristics of direct blue 78 onto polyethylene glycol grafted polystyrene resin. <i>Separation Science and Technology</i> , 2002, 37, 2405-2419.	1.3	2
97	Simple and sensitive method of microcantilever-based DNA detection using nanoparticles conjugates. , 2008, , .		2
98	Nanoprobes: Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow Shell Assemblies for In Vivo Multiplex Detection ( <i>Adv. Funct. Mater.</i> 30/2013). <i>Advanced Functional Materials</i> , 2013, 23, 3828-3828.	7.8	2
99	Synaptic transistors based on a tyrosine-rich peptide for neuromorphic computing. <i>RSC Advances</i> , 2021, 11, 39619-39624.	1.7	2
100	Protein patterning by virtual mask photolithography using micromirror array. , 0, , .		1
101	Nanoslit-concentration-chip integrated microbead-based protein assay system for sensitive and quantitative detection. <i>RSC Advances</i> , 2017, 7, 29679-29685.	1.7	1
102	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.	0.8	1
103	Micro biomedical diagnostic system for endoscopic microcapsule. , 0, , .		0
104	Single crystalline silicon micromirror array for peptide synthesis applications. , 0, , .		0
105	Enhancement method of limit of frequency resolution using magnetic bead on the microcantilever. , 2006, , .		0
106	Application of Nanotechnology into Life Science: Benefit or Risk. , 0, , 491-501.		0
107	Facile Synthetic Method of Alkanethiol Spacer for Biointerface. <i>Synlett</i> , 2012, 24, 20-23.	1.0	0
108	Quantum Dots: Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging ( <i>Adv. Funct. Mater.</i> 9/2012). <i>Advanced Functional Materials</i> , 2012, 22, 1774-1774.	7.8	0

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109	Abstract: Covalent Self-Assembly and One-Step Photocrosslinking of Tyrosine-Rich Oligopeptides to Form Diverse Nanostructures (Angew. Chem. 24/2016). Angewandte Chemie, 2016, 128, 7122-7122.	1.6	0
110	Antibody-Based Therapeutics: Ultrasensitive NIR-SERS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation (Adv. Healthcare Mater. 4/2018). Advanced Healthcare Materials, 2018, 7, 1870019.	3.9	0
111	Conclusion and Perspective. Advances in Experimental Medicine and Biology, 2021, 1309, 289-292.	0.8	0
112	Synthesis of Caffeoyl-Prolyl-Histidyl-Xaa Derivatives and Evaluation of Their Activities and Stability upon Long-Term Storage. International Journal of Molecular Sciences, 2021, 22, 6301.	1.8	0