

Dokyoung Kim

List of Publications by Year in descending order

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111
papers

4,033
citations

126858

33
h-index

128225

60
g-index

114
all docs

114
docs citations

114
times ranked

5387
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibiotic-loaded nanoparticles targeted to the site of infection enhance antibacterial efficacy. Nature Biomedical Engineering, 2018, 2, 95-103.	11.6	278
2	Ï€-Expanded coumarins: synthesis, optical properties and applications. Journal of Materials Chemistry C, 2015, 3, 1421-1446.	2.7	203
3	Fluorescence sensing systems for gold and silver species. Chemical Society Reviews, 2015, 44, 4367-4399.	18.7	184
4	Two-Photon Absorbing Dyes with Minimal Autofluorescence in Tissue Imaging: Application to <i>in Vivo</i> Imaging of Amyloid- β^2 Plaques with a Negligible Background Signal. Journal of the American Chemical Society, 2015, 137, 6781-6789.	6.6	181
5	Recent development of two-photon fluorescent probes for bioimaging. Organic and Biomolecular Chemistry, 2014, 12, 4550-4566.	1.5	178
6	A structural remedy toward bright dipolar fluorophores in aqueous media. Chemical Science, 2015, 6, 4335-4342.	3.7	144
7	A turn-on two-photon fluorescent probe for ATP and ADP. Chemical Communications, 2012, 48, 3206.	2.2	125
8	In vivo two-photon fluorescent imaging of fluoride with a desilylation-based reactive probe. Chemical Communications, 2012, 48, 10243.	2.2	123
9	Toward a Selective, Sensitive, Fast-Responsive, and Biocompatible Two-Photon Probe for Hydrogen Sulfide in Live Cells. Analytical Chemistry, 2015, 87, 1188-1195.	3.2	113
10	Hydrazine Expos \AA : The Next-Generation Fluorescent Probe. ACS Sensors, 2019, 4, 441-449.	4.0	112
11	Mitophagy links oxidative stress conditions and neurodegenerative diseases. Neural Regeneration Research, 2019, 14, 749.	1.6	108
12	Reaction-Based Two-Photon Probes for Mercury Ions: Fluorescence Imaging with Dual Optical Windows. Organic Letters, 2012, 14, 2598-2601.	2.4	103
13	Close Correlation of Monoamine Oxidase Activity with Progress of Alzheimer's Disease in Mice, Observed by <i>in Vivo</i> Two-Photon Imaging. ACS Central Science, 2016, 2, 967-975.	5.3	94
14	Reaction-based two-photon probes for in vitro analysis and cellular imaging of monoamine oxidase activity. Chemical Communications, 2012, 48, 6833.	2.2	93
15	Enhanced Performance of a Molecular Photoacoustic Imaging Agent by Encapsulation in Mesoporous Silicon Nanoparticles. Advanced Materials, 2018, 30, e1800512.	11.1	89
16	A Ratiometric Two-Photon Fluorescent Probe for Tracking Lysosomal ATP: Direct <i>In</i> ...Cellulo Observation of Lysosomal Membrane Fusion Processes. Angewandte Chemie - International Edition, 2018, 57, 10142-10147.	7.2	79
17	Frontiers in Probing Alzheimer's Disease Biomarkers with Fluorescent Small Molecules. ACS Central Science, 2019, 5, 209-217.	5.3	72
18	Harnessing Intramolecular Rotation To Enhance Two-Photon Imaging of $\text{A}\beta^2$ Plaques through Minimizing Background Fluorescence. Angewandte Chemie - International Edition, 2019, 58, 5648-5652.	7.2	71

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19	Facile Surface Modification of Hydroxylated Silicon Nanostructures Using Heterocyclic Silanes. <i>Journal of the American Chemical Society</i> , 2016, 138, 15106-15109.	6.6	68
20	Synthesis of Benzocoumarins and Characterization of Their Photophysical Properties. <i>Asian Journal of Organic Chemistry</i> , 2014, 3, 1089-1096.	1.3	66
21	Two-Photon In Vivo Imaging with Porous Silicon Nanoparticles. <i>Advanced Materials</i> , 2017, 29, 1703309.	11.1	66
22	Synthesis of β -Extended Coumarins and Evaluation of Their Precursors as Reactive Fluorescent Probes for Mercury Ions. <i>Asian Journal of Organic Chemistry</i> , 2012, 1, 60-64.	1.3	64
23	Tumor-Targeting, MicroRNA-Silencing Porous Silicon Nanoparticles for Ovarian Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23926-23937.	4.0	59
24	Enhanced quantum yield of photoluminescent porous silicon prepared by supercritical drying. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	52
25	A Mini Review: Recent Advances in Surface Modification of Porous Silicon. <i>Materials</i> , 2018, 11, 2557.	1.3	49
26	Ratiometric fluorescence detection of cysteine and homocysteine with a BODIPY dye by mimicking the native chemical ligation. <i>Analyst</i> , 2015, 140, 422-427.	1.7	48
27	Benzo[g]coumarin-Based Fluorescent Probes for Bioimaging Applications. <i>Journal of Analytical Methods in Chemistry</i> , 2018, 2018, 1-11.	0.7	48
28	A BODIPY-based reactive probe for ratiometric fluorescence sensing of mercury ions. <i>Tetrahedron</i> , 2012, 68, 5279-5282.	1.0	42
29	A molecular approach to rationally constructing specific fluorogenic substrates for the detection of acetylcholinesterase activity in live cells, mice brains and tissues. <i>Chemical Science</i> , 2020, 11, 11285-11292.	3.7	40
30	Molecular-Shape-Dependent Luminescent Behavior of Dye Aggregates: Bent versus Linear Benzocoumarins. <i>Crystal Growth and Design</i> , 2014, 14, 6613-6619.	1.4	39
31	Oriented Nanofibrous Polymer Scaffolds Containing Protein-Loaded Porous Silicon Generated by Spray Nebulization. <i>Advanced Materials</i> , 2018, 30, e1706785.	11.1	38
32	An FITC-BODIPY FRET Couple: Application to Selective, Ratiometric Detection and Bioimaging of Cysteine. <i>Chemistry - an Asian Journal</i> , 2015, 10, 894-902.	1.7	36
33	Tumor-specific macrophage targeting through recognition of retinoid X receptor beta. <i>Journal of Controlled Release</i> , 2019, 301, 42-53.	4.8	36
34	A brain tumor-homing tetra-peptide delivers a nano-therapeutic for more effective treatment of a mouse model of glioblastoma. <i>Nanoscale Horizons</i> , 2020, 5, 1213-1225.	4.1	36
35	Tracking the Fate of Porous Silicon Nanoparticles Delivering a Peptide Payload by Intrinsic Photoluminescence Lifetime. <i>Advanced Materials</i> , 2018, 30, e1802878.	11.1	35
36	Ni(OH) ₂ -WP Hybrid Nanorod Arrays for Highly Efficient and Durable Hydrogen Evolution Reactions in Alkaline Media. <i>ChemSusChem</i> , 2018, 11, 3618-3624.	3.6	35

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37	Biomarkers Suggesting Favorable Prognostic Outcomes in Sudden Sensorineural Hearing Loss. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7248.	1.8	35
38	Penta-fluorophenol: a Smiles rearrangement-inspired cysteine-selective fluorescent probe for imaging of human glioblastoma. <i>Chemical Science</i> , 2020, 11, 5658-5668.	3.7	34
39	Recent advances in surface engineering of porous silicon nanomaterials for biomedical applications. <i>Microporous and Mesoporous Materials</i> , 2021, 310, 110673.	2.2	33
40	Recent advances in single-benzene-based fluorophores: physicochemical properties and applications. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 933-946.	1.5	31
41	Thermally Induced Silane Dehydrocoupling on Silicon Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6423-6427.	7.2	28
42	Roles of Gasotransmitters in Synaptic Plasticity and Neuropsychiatric Conditions. <i>Neural Plasticity</i> , 2018, 2018, 1-15.	1.0	28
43	Recent advances in two-photon absorbing probes based on a functionalized dipolar naphthalene platform. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 4288-4297.	1.5	28
44	Two-photon probes based on arylsulfonyl azides: Fluorescence detection and imaging of biothiols. <i>Dyes and Pigments</i> , 2013, 99, 308-315.	2.0	24
45	A Ratiometric Two-Photon Fluorescent Probe for Tracking Lysosomal ATP: Direct In-Cellulo Observation of Lysosomal Membrane Fusion Processes. <i>Angewandte Chemie</i> , 2018, 130, 10299-10304.	1.6	24
46	A Schiff Base Fluorescence Enhancement Probe for Fe(III) and Its Sensing Applications in Cancer Cells. <i>Sensors</i> , 2019, 19, 2500.	2.1	24
47	A highly sensitive and fast responsive fluorescent probe for detection of Gold(III) ions based on the AIEgen disaggregation. <i>Dyes and Pigments</i> , 2019, 160, 647-653.	2.0	23
48	CRISPR-Cpf1 Activation of Endogenous BMP4 Gene for Osteogenic Differentiation of Umbilical-Cord-Derived Mesenchymal Stem Cells. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 17, 309-316.	1.8	18
49	Fluorescent Labeling of Protein Using Blue-Emitting 8-Amino-BODIPY Derivatives. <i>Journal of Fluorescence</i> , 2017, 27, 2231-2238.	1.3	17
50	A bright blue fluorescent dextran for two-photon in vivo imaging of blood vessels. <i>Bioorganic Chemistry</i> , 2019, 89, 103019.	2.0	17
51	Heme Oxygenase 1 in Schwann Cells Regulates Peripheral Nerve Degeneration Against Oxidative Stress. <i>ASN Neuro</i> , 2019, 11, 175909141983894.	1.5	17
52	Harnessing Intramolecular Rotation To Enhance Two-Photon Imaging of A β Plaques through Minimizing Background Fluorescence. <i>Angewandte Chemie</i> , 2019, 131, 5704-5708.	1.6	17
53	Membrane-Targeting Triphenylphosphonium Functionalized Ciprofloxacin for Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA). <i>Antibiotics</i> , 2020, 9, 758.	1.5	17
54	A Selective Fluorescence Turn-On Probe for the Detection of DCNP (Nerve Agent Tabun Simulant). <i>Materials</i> , 2019, 12, 2943.	1.3	15

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55	Recent trends in CRISPR-Cas system: genome, epigenome, and transcriptome editing and CRISPR delivery systems. <i>Genes and Genomics</i> , 2019, 41, 871-877.	0.5	15
56	AI-Egen-based nanoprobe for the ATP sensing and imaging in cancer cells and embryonic stem cells. <i>Analytica Chimica Acta</i> , 2021, 1152, 338269.	2.6	15
57	Thermally Induced Silane Dehydrocoupling on Silicon Nanostructures. <i>Angewandte Chemie</i> , 2016, 128, 6533-6537.	1.6	13
58	Hydrazine-Selective Fluorescent Turn-On Probe Based on Ortho-Methoxy-Methyl-Ether (o-MOM) Assisted Retro-aza-Henry Type Reaction. <i>Sensors</i> , 2019, 19, 4525.	2.1	13
59	Self-Activating Therapeutic Nanoparticle: A Targeted Tumor Therapy Using Reactive Oxygen Species Self-Generation and Switch-on Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30359-30372.	4.0	13
60	Benzo[<i>g</i>]coumarin- <i>h</i> benzothiazole hybrid: A fluorescent probe for the detection of amyloid- β aggregates. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 764-768.	1.0	13
61	High Stability of a Donor-Acceptor Type Oxazepine-Containing Fluorophore and Its Applications in Cellular Imaging and Two-Photon Deep Tissue Imaging. <i>Organic Letters</i> , 2019, 21, 3891-3894.	2.4	12
62	A wavelength-tunable and facilely functionable D-A type naphthalene core skeleton: Synthesis, photophysical property, and bio-imaging applications for cells and tissues. <i>Dyes and Pigments</i> , 2019, 162, 104-111.	2.0	12
63	Latent turn-on fluorescent probe for the detection of toxic malononitrile in water and its practical applications. <i>Analytica Chimica Acta</i> , 2020, 1095, 154-161.	2.6	12
64	A metastasis suppressor Pt-dendrimer nanozyme for the alleviation of glioblastoma. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4015-4023.	2.9	12
65	Human Glioblastoma Visualization: Triple Receptor-Targeting Fluorescent Complex of Dye, SIWV Tetra-Peptide, and Serum Albumin Protein. <i>ACS Sensors</i> , 2021, 6, 2270-2280.	4.0	12
66	A Dipolar Anthracene Dye: Synthesis, Optical Properties and Two-photon Tissue Imaging. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2518-2523.	1.7	11
67	A benzothioate native chemical ligation-based cysteine-selective fluorescent probe. <i>Dyes and Pigments</i> , 2019, 171, 107764.	2.0	11
68	Immunoglobulins and Transcription Factors in Otitis Media. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3201.	1.8	11
69	Pyridine-NBD: A homocysteine-selective fluorescent probe for glioblastoma (GBM) diagnosis based on a blood test. <i>Analytica Chimica Acta</i> , 2022, 1202, 339678.	2.6	11
70	Systematic Degradation Rate Analysis of Surface-Functionalized Porous Silicon Nanoparticles. <i>Materials</i> , 2019, 12, 580.	1.3	10
71	Bacteria-dye combination screening: Diamine-containing BMeS-p-A dye for specific fluorescence imaging of <i>Acinetobacter baumannii</i> . <i>Dyes and Pigments</i> , 2021, 185, 108939.	2.0	10
72	Review of Pharmacotherapy for Tinnitus. <i>Healthcare (Switzerland)</i> , 2021, 9, 779.	1.0	10

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73	First-in-Class: Cervical cancer diagnosis based on a urine test with fluorescent cysteine probe. <i>Sensors and Actuators B: Chemical</i> , 2022, 360, 131646.	4.0	10
74	Toll-Like Receptors: Expression and Roles in Otitis Media. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7868.	1.8	9
75	Advances in diagnostic methods for keloids and biomarker-targeted fluorescent probes. <i>Analyst</i> , The, 2019, 144, 1866-1875.	1.7	8
76	Al ₂ O ₃ blocking layer inserted ZrO ₂ Metal-Insulator-Metal capacitor for the improved electrical and interfacial properties. <i>Thin Solid Films</i> , 2020, 713, 138368.	0.8	8
77	Red-Emitting SBBF (Single-Benzene-Based Fluorophore)-Silica Hybrid Material: One-Pot Synthesis, Characterization, and Biomedical Applications. <i>Nanomaterials</i> , 2021, 11, 2036.	1.9	8
78	Glioblastoma Homing Photodynamic Therapy Based on Multifunctionalized Porous Silicon Nanoparticles. <i>ACS Applied Nano Materials</i> , 2022, 5, 5387-5397.	2.4	8
79	Development of a fluorescent nanoprobe based on an amphiphilic single-benzene-based fluorophore for lipid droplet detection and its practical applications. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 5423-5433.	1.5	8
80	Porous silicon-based fluorescent nanoprobe for the detection of anthrax biomarker and its practical sensing applications. <i>Dyes and Pigments</i> , 2020, 182, 108700.	2.0	7
81	Hybrid Composite of Silver Nanoparticle/Porous Silicon Microparticles as an Image-Guided Localization Agent for Computed Tomography Scan of the Lungs. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4390-4396.	2.6	7
82	<i>De novo</i> formation of citrate-based fluorophores on N-termini of peptides and proteins in cells and tissues. <i>Chemical Communications</i> , 2020, 56, 74-77.	2.2	6
83	Visualizing mitochondria and mouse intestine with a fluorescent complex of a naphthalene-based dipolar dye and serum albumin. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7642-7651.	2.9	6
84	A Deep Dive: SIWV Tetra-Peptide Enhancing the Penetration of Nanotherapeutics into the Glioblastoma. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 4163-4174.	2.6	6
85	Liposomal-Encapsulated Near-Infrared Fluorophore Based on Extended Dipolar Naphthalene Platform and Its Imaging Applications in Human Cancer Cells. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 115-118.	1.0	6
86	4-(2-Hydroxyethyl)-1-piperazine ethane sulfonic acid repositioning: Amyloid disaggregating agent and its sustained-release system. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 78-82.	1.0	6
87	A fluorescent nanoprobe based on AIEgen: Visualization of silver ions and sensing applications in cancer cells and <i>S. aureus</i> . <i>Dyes and Pigments</i> , 2022, 198, 110027.	2.0	6
88	Gadolinium silicate-coated porous silicon nanoparticles as an MRI contrast agent and drug delivery carrier. <i>Materials Chemistry and Physics</i> , 2022, 287, 126345.	2.0	6
89	Fluorescent Probes for Analysis and Imaging of Monoamine Oxidase Activity. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 1269-1274.	1.0	5
90	Fluorescent Labeling of Lysine Residues in Protein using α -thiomethyl-BODIPY. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 995-996.	1.0	5

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91	Inhibition of transient receptor potential melastatin 7 (TRPM7) protects against Schwann cell trans-dedifferentiation and proliferation during Wallerian degeneration. <i>Animal Cells and Systems</i> , 2020, 24, 189-196.	0.8	5
92	Improvement of the electrical and interfacial properties of TiN/ZrO ₂ by a modulated atomic layer deposition process with controlled O ₃ dosing. <i>Thin Solid Films</i> , 2019, 675, 153-159.	0.8	4
93	Thermally induced silane dehydrocoupling on porous silicon nanoparticles for ultra-long-acting drug release. <i>Nanoscale</i> , 2021, 13, 15560-15568.	2.8	4
94	Recent advances in hybrid system of porous silicon nanoparticles and biocompatible polymers for biomedical applications. <i>Biomedical Engineering Letters</i> , 2021, 11, 171-181.	2.1	4
95	Pentafluoro-benzene functionalized AIEgen: A highly sensitive and fast responsive fluorescent nanoprobe for the detection of gold ions. <i>Dyes and Pigments</i> , 2022, 198, 110007.	2.0	4
96	Scepterin@Au nano-aggregates (SANA) for overcoming drug-resistant Gram-negative bacteria. <i>Nanoscale Horizons</i> , 2022, 7, 873-882.	4.1	4
97	Hyperpolarized ¹²⁹ Xe nuclear magnetic resonance study of mesoporous silicon sponge materials. <i>Journal of Materials Research</i> , 2017, 32, 3038-3045.	1.2	3
98	Monitoring of Monoamine Oxidases as Biomarkers of Disease and Disorder. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 277-278.	1.0	3
99	Investigation of grafted mesoporous silicon sponge using hyperpolarized ¹²⁹ Xe NMR spectroscopy. <i>Journal of Materials Research</i> , 2018, 33, 2637-2645.	1.2	3
100	Fluorescence-Based Analysis of Noncanonical Functions of Aminoacyl-tRNA Synthetase-Interacting Multifunctional Proteins (AIMPs) in Peripheral Nerves. <i>Materials</i> , 2019, 12, 1064.	1.3	3
101	Thermally Induced Silane Dehydrocoupling: Hydrophobic and Oleophilic Filter Paper Preparation for Water Separation and Removal from Organic Solvents. <i>Materials</i> , 2021, 14, 5775.	1.3	3
102	A transformable and biocompatible polymer series using ring-opening polymerization of cyclic silane for more effective transdermal drug delivery. <i>Chemical Engineering Journal</i> , 2022, 440, 135989.	6.6	3
103	Fluorescence Analysis: From Sensing to Imaging. <i>Journal of Analytical Methods in Chemistry</i> , 2018, 1-2.	0.7	2
104	Articulated Structures of D-A Type Dipolar Dye with AIEgen: Synthesis, Photophysical Properties, and Applications. <i>Materials</i> , 2020, 13, 1939.	1.3	2
105	Identification of the donor-substitution effect of tetraphenylethylene AIEgen: Synthesis, photophysical property analysis, and bioimaging applications. <i>Dyes and Pigments</i> , 2022, 199, 110098.	2.0	2
106	Comparison of Medical and Surgical Treatment in Severe Bell's Palsy. <i>Journal of Clinical Medicine</i> , 2022, 11, 888.	1.0	2
107	Blue-Emitting BODIPY Dyes. , 2019, , .		1
108	Self-sealing chemistry of calcium/magnesium silicate on porous silicon nanoparticles for enhanced drug-loading and slowed drug-releasing. <i>Materials Letters</i> , 2022, 324, 132719.	1.3	1

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109	TAMRA-conjugated DRL tripeptide for the visualization of synovium. <i>Dyes and Pigments</i> , 2022, 205, 110590.	2.0	1
110	Nonviral Fluorescent Retrograde Tracers. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 931-932.	1.0	0
111	The Roles of NOD-like Receptors in Innate Immunity in Otitis Media. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2350.	1.8	0