

Chang-Keun Lim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55 papers	1,865 citations	23 h-index	42 g-index
59 ext. papers	2,114 ext. citations	10.7 avg, IF	4.69 L-index

#	Paper	IF	Citations
55	Chemistry, Functionalization, and Applications of Recent Monoelemental Two-Dimensional Materials and Their Heterostructures. <i>Chemical Reviews</i> , 2021 ,	68.1	23
54	Water-Dispersible CsPbBr Perovskite Nanocrystals with Ultra-Stability and its Application in Electrochemical CO Reduction. <i>Nano-Micro Letters</i> , 2021 , 13, 172	19.5	3
53	Dye-Sensitized Lanthanide-Doped Upconversion Nanoparticles for Water Detection in Organic Solvents. <i>ACS Applied Nano Materials</i> , 2021 , 4, 14069-14076	5.6	0
52	Computational design of two-photon active organic molecules for infrared responsive materials. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9867-9873	7.1	1
51	Interlayer-Sensitized Linear and Nonlinear Photoluminescence of Quasi-2D Hybrid Perovskites Using Aggregation-Induced Enhanced Emission Active Organic Cation Layers. <i>Advanced Functional Materials</i> , 2020 , 30, 1909375	15.6	8
50	Elucidating the Role of the Organic Cation in Tuning the Optical Response of Two-Dimensional Organic-Inorganic Halide Perovskites by Computational Investigation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3224-3232	3.8	3
49	Passivation engineering for hysteresis-free mixed perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 215, 110648	6.4	14
48	Modulation of Surface Energy Transfer Cascade for Reversible Photoluminescence pH Sensing. <i>Chemistry of Materials</i> , 2019 , 31, 8121-8128	9.6	13
47	Doubly resonant sum frequency spectroscopy of mixed photochromic isomers on surfaces reveals conformation-specific vibronic effects. <i>Journal of Chemical Physics</i> , 2019 , 150, 114704	3.9	13
46	Rational Design of Inflammation-Responsive Inflatable Nanogels for Ultrasound Molecular Imaging. <i>Chemistry of Materials</i> , 2019 , 31, 2905-2912	9.6	11
45	Photonics and optoelectronics using nano-structured hybrid perovskite media and their optical cavities. <i>Physics Reports</i> , 2019 , 795, 1-51	27.7	262
44	Can the Morphology of Biconcave Metal Sulfide Nanoplatelets Be Preserved during Cation Exchange?. <i>Chemistry of Materials</i> , 2019 , 31, 5706-5712	9.6	10
43	Self-cleaning membranes for water purification by co-deposition of photo-mobile 4,4'-azodianiline and bio-adhesive polydopamine. <i>Journal of Membrane Science</i> , 2018 , 554, 164-174	9.6	24
42	Enhanced fatigue resistance of suppressed hysteresis in perovskite solar cells by an organic crosslinker. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 176, 30-35	6.4	13
41	Optical Control of Biomimetic Nanoparticle Catalysts Based upon the Metal Component. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28055-28064	3.8	5
40	Optical Control of Nanoparticle Catalysis Influenced by Photoswitch Positioning in Hybrid Peptide Capping Ligands. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33640-33651	9.5	11
39	Organic Solvent and Surfactant Free Fluorescent Organic Nanoparticles by Laser Ablation of Aggregation-Induced Enhanced Emission Dyes. <i>Advanced Optical Materials</i> , 2018 , 6, 1800164	8.1	12

38	Dramatic Enhancement of Quantum Cutting in Lanthanide-Doped Nanocrystals Photosensitized with an Aggregation-Induced Enhanced Emission Dye. <i>Nano Letters</i> , 2018 , 18, 4922-4926	11.5	32
37	Manipulating Magneto-Optic Properties of a Chiral Polymer by Doping with Stable Organic Biradicals. <i>Nano Letters</i> , 2016 , 16, 5451-5	11.5	25
36	Chromogenesis-based Resonance Raman molecular sensor for reactive oxygen species. <i>Dyes and Pigments</i> , 2016 , 130, 162-167	4.6	3
35	Plasmon-enhanced two-photon-induced isomerization for highly-localized light-based actuation of inorganic/organic interfaces. <i>Nanoscale</i> , 2016 , 8, 4194-202	7.7	14
34	Rational design for enhancing inflammation-responsive in vivo chemiluminescence via nanophotonic energy relay to near-infrared AIE-active conjugated polymer. <i>Biomaterials</i> , 2016 , 84, 111-118	15.6	60
33	Optical Actuation of Inorganic/Organic Interfaces: Comparing Peptide-Azobenzene Ligand Reconfiguration on Gold and Silver Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1050-1060	8.5	22
32	Fluorogenic nanoreactor assembly with boosted sensing kinetics for timely imaging of cellular hydrogen peroxide. <i>Chemical Communications</i> , 2016 , 52, 1131-4	5.8	5
31	Resonance Raman Probes for Organelle-Specific Labeling in Live Cells. <i>Scientific Reports</i> , 2016 , 6, 28483	4.9	25
30	Toward a modular multi-material nanoparticle synthesis and assembly strategy via bionanocombinatorics: bifunctional peptides for linking Au and Ag nanomaterials. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 30845-30856	3.6	7
29	Prediction of concrete adiabatic temperature rise characteristic by semi-adiabatic temperature rise test and FEM analysis. <i>Construction and Building Materials</i> , 2016 , 125, 679-689	6.7	12
28	Remote Optically Controlled Modulation of Catalytic Properties of Nanoparticles through Reconfiguration of the Inorganic/Organic Interface. <i>ACS Nano</i> , 2016 , 10, 9470-9477	16.7	43
27	Triggering nanoparticle surface ligand rearrangement via external stimuli: light-based actuation of biointerfaces. <i>Nanoscale</i> , 2015 , 7, 13638-45	7.7	24
26	Biolighted Nanotorch Capable of Systemic Self-Delivery and Diagnostic Imaging. <i>ACS Nano</i> , 2015 , 9, 9906-9917	11.7	30
25	Experimental Study on Hydration Heat Control of Mass Concrete by Vertical Pipe Cooling Method. <i>Journal of Asian Architecture and Building Engineering</i> , 2015 , 14, 657-662	1	15
24	Organelle specific imaging in live cells and immuno-labeling using resonance Raman probe. <i>Biomaterials</i> , 2015 , 53, 25-31	15.6	29
23	Highly Fluorescent and Color-Tunable Exciplex Emission from Poly(N-vinylcarbazole) Film Containing Nanostructured Supramolecular Acceptors. <i>Advanced Functional Materials</i> , 2014 , 24, 2746-2753	15.6	27
22	Emission: Highly Fluorescent and Color-Tunable Exciplex Emission from Poly(N-vinylcarbazole) Film Containing Nanostructured Supramolecular Acceptors (Adv. Funct. Mater. 19/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 2745-2745	15.6	1
21	Analytical Study on Thermal Cracking Control of Mass Concrete by Vertical Pipe Cooling Method. <i>Journal of the Korea Concrete Institute</i> , 2014 , 26, 57-62	0.8	3

20	Conjugated polymer/photochromophore binary nanococktails: bistable photoswitching of near-infrared fluorescence for in vivo imaging. <i>Advanced Materials</i> , 2013 , 25, 5574-80	24	52
19	Gadolinium-coordinated elastic nanogels for in vivo tumor targeting and imaging. <i>Biomaterials</i> , 2013 , 34, 6846-52	15.6	53
18	Tuning solid-state fluorescence to the near-infrared: a combinatorial approach to discovering molecular nanoprobe for biomedical imaging. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8881-8	9.5	37
17	Poly(oxyethylene sugaramide)s: unprecedented multihydroxyl building blocks for tumor-homing nanoassembly. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 3437-3442	7.3	2
16	Nanophotosensitizers toward advanced photodynamic therapy of Cancer. <i>Cancer Letters</i> , 2013 , 334, 176-87	9.9	205
15	Phthalocyanine-aggregated polymeric nanoparticles as tumor-homing near-infrared absorbers for photothermal therapy of cancer. <i>Theranostics</i> , 2012 , 2, 871-9	12.1	77
14	Iodinated photosensitizing chitosan: self-assembly into tumor-homing nanoparticles with enhanced singlet oxygen generation. <i>Bioconjugate Chemistry</i> , 2012 , 23, 1022-8	6.3	31
13	Dye/peroxalate aggregated nanoparticles with enhanced and tunable chemiluminescence for biomedical imaging of hydrogen peroxide. <i>ACS Nano</i> , 2012 , 6, 6759-66	16.7	141
12	Self-deprotonation and colorization of 1,3-bis(dicyanomethylidene)indan in polar media: a facile route to a minimal polymethine dye for NIR fluorescence imaging. <i>Chemistry - A European Journal</i> , 2012 , 18, 8699-704	4.8	10
11	Heavy-atomic construction of photosensitizer nanoparticles for enhanced photodynamic therapy of cancer. <i>Small</i> , 2011 , 7, 112-8	11	28
10	Concentration and pH-modulated dual fluorescence in self-assembled nanoparticles of phototautomerizable biopolymeric amphiphile. <i>Dyes and Pigments</i> , 2011 , 90, 284-289	4.6	30
9	Conjugated polymer nanoparticles for biomedical in vivo imaging. <i>Chemical Communications</i> , 2010 , 46, 1617-9	5.8	150
8	Squaraine-Doped Functional Nanoprobes: Lipophilically Protected Near-Infrared Fluorescence for Bioimaging. <i>Advanced Functional Materials</i> , 2010 , 20, 2786-2793	15.6	21
7	Chemiluminescence-Generating Nanoreactor Formulation for Near-Infrared Imaging of Hydrogen Peroxide and Glucose Level in vivo. <i>Advanced Functional Materials</i> , 2010 , 20, 2644-2648	15.6	109
6	Chemiluminescence-Generating Nanoreactor Formulation for Near-Infrared Imaging of Hydrogen Peroxide and Glucose Level in vivo. <i>Advanced Functional Materials</i> , 2010 , 20, n/a-n/a	15.6	1
5	Dye-Condensed Biopolymeric Hybrids: Chromophoric Aggregation and Self-Assembly toward Fluorescent Bionanoparticles for Near Infrared Bioimaging. <i>Chemistry of Materials</i> , 2009 , 21, 5819-5825	9.6	81
4	DNA detection via programmed core-shell nanodot-assembly with concomitant fluorescence modulation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 196, 94-98	4.7	
3	Cleavage-induced fluorescence change via hydrophilicity control: A new strategy for biological application. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 188, 149-154	4.7	3

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| 2 | Synthesis and Photoisomerization Characteristics of a 2,4,4-Substituted Azobenzene Tethered to the Side Chains of Polymethacrylamide. <i>Macromolecules</i> , 2006 , 39, 3217-3223 | 5.5 | 21 |
| 1 | Intramolecular ionic Diels-Alder reactions of alpha-acetylenic acetals. <i>Journal of Organic Chemistry</i> , 2004 , 69, 8154-6 | 4.2 | 4 |