

# Sierin Lim

## List of Publications by Citations

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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.

94  
papers

2,160  
citations

24  
h-index

44  
g-index

105  
ext. papers

2,588  
ext. citations

6  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
94	Facile Synthesis of Graphene Quantum Dots from 3D Graphene and their Application for Fe <sup>3+</sup> Sensing. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3021-3026	15.6	377
93	Graphene/carbon cloth anode for high-performance mediatorless microbial fuel cells. <i>Bioresource Technology</i> , <b>2012</b> , 114, 275-80	11	258
92	Engineering protein nanocages as carriers for biomedical applications. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e37110.3	10.3	103
91	Ferritin-templated synthesis and self-assembly of Pt nanoparticles on a monolithic porous graphene network for electrocatalysis in fuel cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 782-795	9.5	90
90	Targeted Delivery of Docetaxel by Use of Transferrin/Poly(allylamine hydrochloride)-functionalized Graphene Oxide Nanocarrier. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 13282-93	9.5	66
89	Long-Range Tunneling Processes across Ferritin-Based Junctions. <i>Advanced Materials</i> , <b>2016</b> , 28, 1824-3024	10.2	63
88	Bioengineered tunable memristor based on protein nanocage. <i>Small</i> , <b>2014</b> , 10, 277-83	11	59
87	Protein-based memristive nanodevices. <i>Small</i> , <b>2011</b> , 7, 3016-20	11	59
86	Synthesis and cytocompatibility of manganese (II) and iron (III) substituted hydroxyapatite nanoparticles. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 754-763	4.3	50
85	Bioengineered three-dimensional co-culture of cancer cells and endothelial cells: A model system for dual analysis of tumor growth and angiogenesis. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 1865-1877	4.9	49
84	Thermostability and molecular encapsulation within an engineered caged protein scaffold. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 101, 654-64	4.9	48
83	Production of Hollow Bacterial Cellulose Microspheres Using Microfluidics to Form an Injectable Porous Scaffold for Wound Healing. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2983-2992	10.1	45
82	Repurposing a Two-Component System-Based Biosensor for the Killing of <i>Vibrio cholerae</i> . <i>ACS Synthetic Biology</i> , <b>2017</b> , 6, 1403-1415	5.7	43
81	Design of a pH-dependent molecular switch in a caged protein platform. <i>Nano Letters</i> , <b>2009</b> , 9, 160-6	11.5	41
80	Targeting graphene quantum dots to epidermal growth factor receptor for delivery of cisplatin and cellular imaging. <i>Materials Science and Engineering C</i> , <b>2019</b> , 94, 247-257	8.3	41
79	Protein Nanocage as a pH-Switchable Pickering Emulsifier. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 11193-11201	9.5	40
78	Iron-based ferritin nanocore as a contrast agent. <i>Biointerphases</i> , <b>2010</b> , 5, FA48-52	1.8	38

77	A manganese-ferritin nanocomposite as an ultrasensitive T2 contrast agent. <i>Chemical Communications</i> , <b>2012</b> , 48, 862-4	5.8	36
76	A novel archaeal alanine dehydrogenase homologous to ornithine cyclodeaminase and mu-crystallin. <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 7680-9	3.5	35
75	The role of nonconserved residues of <i>Archaeoglobus fulgidus</i> ferritin on its unique structure and biophysical properties. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 32663-32672	5.4	32
74	Graphene quantum dot based charge-reversal nanomaterial for nucleus-targeted drug delivery and efficiency controllable photodynamic therapy. <i>Journal of Biophotonics</i> , <b>2019</b> , 12, e201800367	3.1	26
73	A controlled release of antibiotics from calcium phosphate-coated poly(lactic-co-glycolic acid) particles and their in vitro efficacy against <i>Staphylococcus aureus</i> biofilm. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2014</b> , 25, 747-57	4.5	24
72	pH-triggered disassembly in a caged protein complex. <i>Biomacromolecules</i> , <b>2009</b> , 10, 3199-206	6.9	24
71	Study of stability and biophysical characterization of ranibizumab and aflibercept. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2016</b> , 108, 156-167	5.7	24
70	The unique self-assembly/disassembly property of <i>Archaeoglobus fulgidus</i> ferritin and its implications on molecular release from the protein cage. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2015</b> , 1850, 2544-51	4	22
69	Solid-State Protein Junctions: Cross-Laboratory Study Shows Preservation of Mechanism at Varying Electronic Coupling. <i>IScience</i> , <b>2020</b> , 23, 101099	6.1	19
68	Incorporation of Graphene Quantum Dots, Iron, and Doxorubicin in/on Ferritin Nanocages for Bimodal Imaging and Drug Delivery. <i>Advanced Therapeutics</i> , <b>2020</b> , 3, 1900183	4.9	18
67	Rupturing cancer cells by the expansion of functionalized stimuli-responsive hydrogels. <i>NPG Asia Materials</i> , <b>2018</b> , 10, e465-e465	10.3	18
66	Investigation of electron transfer from isolated spinach thylakoids to indium tin oxide. <i>RSC Advances</i> , <b>2014</b> , 4, 48815-48820	3.7	18
65	Protein cages and virus-like particles: from fundamental insight to biomimetic therapeutics. <i>Biomaterials Science</i> , <b>2020</b> , 8, 2771-2777	7.4	17
64	Designing non-native iron-binding site on a protein cage for biological synthesis of nanoparticles. <i>Small</i> , <b>2014</b> , 10, 3131-8	11	16
63	A thermostable shikimate 5-dehydrogenase from the archaeon <i>Archaeoglobus fulgidus</i> . <i>FEMS Microbiology Letters</i> , <b>2004</b> , 238, 101-106	2.9	16
62	Abundant neuroprotective chaperone Lipocalin-type prostaglandin D synthase (L-PGDS) disassembles the Amyloid- $\beta$ fibrils. <i>Scientific Reports</i> , <b>2019</b> , 9, 12579	4.9	15
61	Engineering nanoparticle synthesis using microbial factories. <i>Engineering Biology</i> , <b>2017</b> , 1, 12-17	1.1	15
60	Trimer-based design of pH-responsive protein cage results in soluble disassembled structures. <i>Biomacromolecules</i> , <b>2011</b> , 12, 3131-8	6.9	15

59	A thermostable shikimate 5-dehydrogenase from the archaeon <i>Archaeoglobus fulgidus</i> . <i>FEMS Microbiology Letters</i> , <b>2004</b> , 238, 101-6	2.9	15
58	Fabrication of cisplatin-loaded poly(lactide-co-glycolide) composite microspheres for osteosarcoma treatment. <i>Pharmaceutical Research</i> , <b>2012</b> , 29, 756-69	4.5	14
57	Isolating a trimer intermediate in the self-assembly of E2 protein cage. <i>Biomacromolecules</i> , <b>2012</b> , 13, 699-705	6.9	14
56	Holistic engineering of cell-free systems through proteome-reprogramming synthetic circuits. <i>Nature Communications</i> , <b>2020</b> , 11, 3138	17.4	13
55	A Novel Platform for Evaluating the Environmental Impacts on Bacterial Cellulose Production. <i>Scientific Reports</i> , <b>2018</b> , 8, 5780	4.9	13
54	Fluidic shear stress increases the anti-cancer effects of ROS-generating drugs in circulating tumor cells. <i>Breast Cancer Research and Treatment</i> , <b>2018</b> , 172, 297-312	4.4	13
53	Rational design of a scalable bioprocess platform for bacterial cellulose production. <i>Carbohydrate Polymers</i> , <b>2019</b> , 207, 684-693	10.3	13
52	Highly sensitive naked eye detection of Iron (III) and H <sub>2</sub> O <sub>2</sub> using poly-(tannic acid) (PTA) coated Au nanocomposite. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 259, 155-161	8.5	13
51	MnSOD mediates shear stress-promoted tumor cell migration and adhesion. <i>Free Radical Biology and Medicine</i> , <b>2018</b> , 129, 46-58	7.8	12
50	Engineered ferritin nanocages as natural contrast agents in magnetic resonance imaging. <i>RSC Advances</i> , <b>2017</b> , 7, 34892-34900	3.7	11
49	Development of a protein nanoparticle platform for targeting EGFR expressing cancer cells. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2015</b> , 90, 1230-1236	3.5	10
48	High isolation transmitter and receiver antennas using high-impedance surfaces for repeater applications. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2013</b> , 27, 2281-2287	1.3	10
47	Characterization of a key trifunctional enzyme for aromatic amino acid biosynthesis in <i>Archaeoglobus fulgidus</i> . <i>Extremophiles</i> , <b>2009</b> , 13, 191-8	3	10
46	Interaction and charge transfer between isolated thylakoids and multi-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 3435-40	3.6	9
45	Universal one-pot, one-step synthesis of core-shell nanocomposites with self-assembled tannic acid shell and their antibacterial and catalytic activities. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45829	2.9	8
44	Easy Formation of Functional Liposomes in Water Using a pH-Responsive Microbial Glycolipid: Encapsulation of Magnetic and Upconverting Nanoparticles. <i>ChemNanoMat</i> , <b>2019</b> , 5, 1188-1201	3.5	7
43	Modulation of the Vault Protein-Protein Interaction for Tuning of Molecular Release. <i>Scientific Reports</i> , <b>2017</b> , 7, 14816	4.9	7
42	Comparing Electrically Small Folded Conical and Spherical Helix Antennas Based on a Genetic Algorithm Optimization. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2009</b> , 23, 1585-1593	1.3	7

41	Probe-dependence of competitive fluorescent ligand binding assays to odorant-binding proteins. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 547-554	4.4	7
40	Direct fluorescence imaging of lignocellulosic and suberized cell walls in roots and stems. <i>AoB PLANTS</i> , <b>2020</b> , 12, plaa032	2.9	7
39	Protein Cages as Theranostic Agent Carriers. <i>IFMBE Proceedings</i> , <b>2013</b> , 321-324	0.2	6
38	Cyclodextrin conjugated ferritin nanocages reduce intracellular cholesterol level in foam cells. <i>Nano Research</i> , <b>2019</b> , 12, 2925-2932	10	6
37	Design of a reversible inversed pH-responsive caged protein. <i>Biomaterials Science</i> , <b>2015</b> , 3, 627-35	7.4	5
36	Isoleucine Residues Determine Chiral Discrimination of Odorant-Binding Protein. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 8720-8724	4.8	5
35	Intelligent optofluidic analysis for ultrafast single bacterium profiling of cellulose production and morphology. <i>Lab on A Chip</i> , <b>2020</b> , 20, 626-633	7.2	5
34	Fault tolerance through redundant COTS components for satellite processing applications		5
33	Enhanced rheological properties and conductivity of bacterial cellulose hydrogels and aerogels through complexation with metal ions and PEDOT/PSS. <i>Cellulose</i> , <b>2020</b> , 27, 8075-8086	5.5	5
32	The impact of COVID-19 pandemic on gender-related work from home in STEM fields-Report of the WiMPBME Task Group. <i>Gender, Work and Organization</i> , <b>2021</b> , 28, 378	4.5	5
31	Preparation and Dynamic Behavior of Protein-Polymer Complexes Formed with Polymer-Binding Peptides. <i>Bulletin of the Chemical Society of Japan</i> , <b>2020</b> , 93, 790-793	5.1	4
30	Rapid Activation of Diazirine Biomaterials with the Blue Light Photocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 36839-36848	9.5	4
29	MRI contrast demonstration of antigen-specific targeting with an iron-based ferritin construct. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	3
28	Room-temperature tunnel magnetoresistance across biomolecular tunnel junctions based on ferritin. <i>JPhys Materials</i> , <b>2021</b> , 4, 035003	4.2	3
27	Supramolecular Protein Assembly Retains Its Structural Integrity at Liquid-Liquid Interface. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 1901674	4.6	2
26	Polarized Raman spectroscopy for enhanced quantification of protein concentrations in an aqueous mixture. <i>Journal of Raman Spectroscopy</i> , <b>2015</b> , 46, 744-749	2.3	2
25	Protein cage assisted metal-protein nanocomposite synthesis: Optimization of loading conditions <b>2012</b> ,		2
24	High Expression of G6PD Increases Doxorubicin Resistance in Triple Negative Breast Cancer Cells by Maintaining GSH Level.. <i>International Journal of Biological Sciences</i> , <b>2022</b> , 18, 1120-1133	11.2	2

23	Protein nanoparticles in molecular, cellular, and tissue imaging. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2021</b> , 13, e1714	9.2	2
22	Switching of the mechanism of charge transport induced by phase transitions in tunnel junctions with large biomolecular cages. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 10768-10776	7.1	2
21	Lipocalin-Type Prostaglandin d Synthase Conjugates as Magnetic Resonance Imaging Contrast Agents for Detecting Amyloid Rich Regions in the Brain of Live Alzheimer's Disease Mice. <i>Advanced NanoBiomed Research</i> , 2100019	0	2
20	Molecular Entrapment in Thermophilic Ferritin for Nanoformulation in Photodynamic Therapy. <i>Advanced Therapeutics</i> , <b>2020</b> , 3, 1900172	4.9	1
19	Diversity and directivity mode-switchable planar antenna by stacking and unfolding four antenna elements. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2013</b> , 27, 978-988	1.3	1
18	ENCAPSULATION AND RELEASE PROFILE OF PROTEIN CAGE FROM A POLYMERIC MATRIX. <i>Nano LIFE</i> , <b>2012</b> , 02, 1250001	0.9	1
17	Determining the relaxivity values of protein cage-templated nanoparticles using magnetic resonance imaging. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1252, 39-50	1.4	1
16	Conjugates of neuroprotective chaperone L-PGDS provide MRI contrast for detection of amyloid Rich regions in live Alzheimer's Disease mouse model brain		1
15	Specific Internalisation of Gold Nanoparticles into Engineered Porous Protein Cages via Affinity Binding. <i>PLoS ONE</i> , <b>2016</b> , 11, e0162848	3.7	1
14	Charge Transport: Long-Range Tunneling Processes across Ferritin-Based Junctions (Adv. Mater. 9/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 1900-1900	24	1
13	Sunlight activated film forming adhesive polymers. <i>Materials Science and Engineering C</i> , <b>2021</b> , 127, 1122403	4.3	1
12	Magnetoferritin enhances T contrast in magnetic resonance imaging of macrophages. <i>Materials Science and Engineering C</i> , <b>2021</b> , 128, 112282	8.3	1
11	The influences of substrates' physical properties on enzymatic PET hydrolysis: Implications for PET hydrolase engineering. <i>Engineering Biology</i> , <b>2022</b> , 6, 17-22	1.1	1
10	Biomolecular control over local gating in bilayer graphene induced by ferritin.. <i>IScience</i> , <b>2022</b> , 25, 104128	6.1	1
9	Supramolecular Assemblies: Supramolecular Protein Assembly Retains Its Structural Integrity at Liquid-Liquid Interface (Adv. Mater. Interfaces 4/2020). <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2070021	4.6	0
8	High-efficiency rectifier using composite right-/left-handed transmission line. <i>Electronics Letters</i> , <b>2013</b> , 49, 1473-1474	1.1	0
7	Bacterial cellulose adhesive composites for oral cavity applications. <i>Carbohydrate Polymers</i> , <b>2021</b> , 274, 118403	10.3	0
6	Protein nanocage-stabilized Pickering emulsions. <i>Current Opinion in Colloid and Interface Science</i> , <b>2021</b> , 56, 101485	7.6	0

5	Bacterial cellulose production, functionalization, and development of hybrid materials using synthetic biology. <i>Polymer Journal</i> , <b>2022</b> , 54, 481-492	2.7	○
4	Women in Medical Physics and Biomedical Engineering: past, present and future.. <i>Health and Technology</i> , <b>2022</b> , 1-8	2.1	○
3	Engineered Protein Nanocages for Targeted and Enhanced Dermal Melanocyte Cellular Uptake. <i>Advanced NanoBiomed Research</i> , <b>2021</b> , 1, 2000115	○	
2	Protein cages as building blocks for superstructures. <i>Engineering Biology</i> , <b>2021</b> , 5, 35-42	1.1	
1	Disassembly and trimer formation of E2 protein cage: the effects of C-terminus, salt, and protonation state. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 365402	3	