

Hsin-Hui Shen

List of Publications by Year in descending order

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58
papers

2,643
citations

172386

29
h-index

197736

49
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61
all docs

61
docs citations

61
times ranked

4609
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesenchymal Stem Cells Deliver Exogenous MicroRNA-let7c via Exosomes to Attenuate Renal Fibrosis. <i>Molecular Therapy</i> , 2016, 24, 1290-1301.	3.7	286
2	The Pathogen <i>Candida albicans</i> Hijacks Pyroptosis for Escape from Macrophages. <i>MBio</i> , 2014, 5, e00003-14.	1.8	181
3	Molecular architecture of the active mitochondrial protein gate. <i>Science</i> , 2015, 349, 1544-1548.	6.0	169
4	A review on morphology engineering for highly efficient and stable hybrid perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12842-12875.	5.2	168
5	Reconstitution of Membrane Proteins into Model Membranes: Seeking Better Ways to Retain Protein Activities. <i>International Journal of Molecular Sciences</i> , 2013, 14, 1589-1607.	1.8	95
6	Application of the Gibbs Equation to the Adsorption of Nonionic Surfactants and Polymers at the Air/Water Interface: Comparison with Surface Excesses Determined Directly using Neutron Reflectivity. <i>Langmuir</i> , 2013, 29, 9324-9334.	1.6	88
7	Aggregation of the Naturally Occurring Lipopeptide, Surfactin, at Interfaces and in Solution: An Unusual Type of Surfactant?. <i>Langmuir</i> , 2009, 25, 4211-4218.	1.6	85
8	High-performance asymmetric supercapacitor based on Co ₉ S ₈ /3D graphene composite and graphene hydrogel. <i>Chemical Engineering Journal</i> , 2015, 279, 241-249.	6.6	75
9	Reconstitution of a nanomachine driving the assembly of proteins into bacterial outer membranes. <i>Nature Communications</i> , 2014, 5, 5078.	5.8	71
10	Antibiotic resistance and host immune evasion in <i>Staphylococcus aureus</i> mediated by a metabolic adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3722-3727.	3.3	69
11	The influence of dipalmitoyl phosphatidylserine on phase behaviour of and cellular response to lyotropic liquid crystalline dispersions. <i>Biomaterials</i> , 2010, 31, 9473-9481.	5.7	68
12	Ultrathin 1T-phase MoS ₂ nanosheets decorated hollow carbon microspheres as highly efficient catalysts for solar energy harvesting and storage. <i>Journal of Power Sources</i> , 2017, 345, 156-164.	4.0	62
13	Heterogenization of homogeneous photocatalysts utilizing synthetic and natural support materials. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4454-4504.	5.2	61
14	Polymyxin-Induced Lipid A Deacylation in <i>Pseudomonas aeruginosa</i> Perturbs Polymyxin Penetration and Confers High-Level Resistance. <i>ACS Chemical Biology</i> , 2018, 13, 121-130.	1.6	59
15	Adsorption and self-assembly of biosurfactants studied by neutron reflectivity and small angle neutron scattering: glycolipids, lipopeptides and proteins. <i>Soft Matter</i> , 2012, 8, 578-591.	1.2	58
16	Alterations of Metabolic and Lipid Profiles in Polymyxin-Resistant <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	1.4	58
17	Comprehensive assessment of machine learning-based methods for predicting antimicrobial peptides. <i>Briefings in Bioinformatics</i> , 2021, 22, .	3.2	55
18	Effective assembly of fimbriae in <i>Escherichia coli</i> depends on the translocation assembly module nanomachine. <i>Nature Microbiology</i> , 2016, 1, 16064.	5.9	52

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19	Comparative Metabolomics and Transcriptomics Reveal Multiple Pathways Associated with Polymyxin Killing in <i>Pseudomonas aeruginosa</i> . <i>MSystems</i> , 2019, 4, .	1.7	52
20	Surface-enhanced Raman spectroscopy for DNA detection by the self-assembly of Ag nanoparticles onto Ag nanoparticle-graphene oxide nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18443-18448.	1.3	49
21	Surfactin Structures at Interfaces and in Solution: The Effect of pH and Cations. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4427-4435.	1.2	48
22	A mortise-tenon joint in the transmembrane domain modulates autotransporter assembly into bacterial outer membranes. <i>Nature Communications</i> , 2014, 5, 4239.	5.8	46
23	Nanocarriers for treatment of ocular neovascularization in the back of the eye: new vehicles for ophthalmic drug delivery. <i>Nanomedicine</i> , 2015, 10, 2093-2107.	1.7	45
24	Glucose-Assisted Synthesis of Nickel-Cobalt Sulfide/Carbon Nanotube Composites as Efficient Cathode Materials for Hybrid Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1493-A1499.	1.3	42
25	Destruction and Solubilization of Supported Phospholipid Bilayers on Silica by the Biosurfactant Surfactin. <i>Langmuir</i> , 2010, 26, 7334-7342.	1.6	36
26	Cooperative Tuneable Interactions between a Designed Peptide Biosurfactant and Positional Isomers of SDOBS at the Air-Water Interface. <i>Langmuir</i> , 2009, 25, 4021-4026.	1.6	35
27	The interaction of cubosomes with supported phospholipid bilayers using neutron reflectometry and QCM-D. <i>Soft Matter</i> , 2011, 7, 8041.	1.2	35
28	Conserved features in TamA enable interaction with TamB to drive the activity of the translocation and assembly module. <i>Scientific Reports</i> , 2015, 5, 12905.	1.6	35
29	A polytherapy based approach to combat antimicrobial resistance using cubosomes. <i>Nature Communications</i> , 2022, 13, 343.	5.8	31
30	Targeted detection of phosphatidylserine in biomimetic membranes and in vitro cell systems using annexin V-containing cubosomes. <i>Biomaterials</i> , 2013, 34, 8361-8369.	5.7	30
31	Lead-free hybrid perovskite photocatalysts: surface engineering, charge-carrier behaviors, and solar-driven applications. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12296-12316.	5.2	29
32	miR-378 reduces mesangial hypertrophy and kidney tubular fibrosis via MAPK signalling. <i>Clinical Science</i> , 2017, 131, 411-423.	1.8	27
33	Investigating the Interaction of Octapeptin A3 with Model Bacterial Membranes. <i>ACS Infectious Diseases</i> , 2017, 3, 606-619.	1.8	25
34	Self-assembly of bi-functional peptides on large-pore mesoporous silica nanoparticles for miRNA binding and delivery. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7653-7657.	2.9	23
35	A drug-tunable Flt23k gene therapy for controlled intervention in retinal neovascularization. <i>Angiogenesis</i> , 2021, 24, 97-110.	3.7	23
36	The Location of the Biosurfactant Surfactin in Phospholipid Bilayers Supported on Silica Using Neutron Reflectometry. <i>Langmuir</i> , 2010, 26, 320-327.	1.6	22

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37	An X-ray and neutron reflectometry study of α -PEG-like TM plasma polymer films. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1008-1019.	1.5	20
38	Deconvoluting the Effect of the Hydrophobic and Hydrophilic Domains of an Amphiphilic Integral Membrane Protein in Lipid Bicontinuous Cubic Mesophases. <i>Langmuir</i> , 2015, 31, 12025-12034.	1.6	18
39	Surfactin at the Water/Air Interface and in Solution. <i>Langmuir</i> , 2015, 31, 11097-11104.	1.6	16
40	Annexin V-containing cubosomes for targeted early detection of apoptosis in degenerative retinal tissue. <i>Journal of Materials Chemistry B</i> , 2018, 6, 7652-7661.	2.9	15
41	Comparison of positional surfactant isomers for displacement of rubisco protein from the air-water interface. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 617-622.	5.0	14
42	Thermally Activated Delayed Phosphorescence and Interchromophore Exciton Coupling in a Platinum-Based Organometallic Emitter. <i>Advanced Optical Materials</i> , 2020, 8, 2001023.	3.6	14
43	Recent progress on post-synthetic treatments of photoelectrodes for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26628-26649.	5.2	14
44	Molecularly engineered organic copolymers as high capacity cathode materials for aqueous proton battery operating at sub-zero temperatures. <i>Journal of Colloid and Interface Science</i> , 2022, 619, 123-131.	5.0	14
45	Effect of Lipid-Based Nanostructure on Protein Encapsulation within the Membrane Bilayer Mimetic Lipidic Cubic Phase Using Transmembrane and Lipo-proteins from the Beta-Barrel Assembly Machinery. <i>Langmuir</i> , 2016, 32, 12442-12452.	1.6	13
46	Defining the structural characteristics of annexin V binding to a mimetic apoptotic membrane. <i>European Biophysics Journal</i> , 2015, 44, 697-708.	1.2	12
47	Phytantriol-Based Cubosome Formulation as an Antimicrobial against Lipopolysaccharide-Deficient Gram-Negative Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44485-44498.	4.0	12
48	Targeted delivery of LM22A-4 by cubosomes protects retinal ganglion cells in an experimental glaucoma model. <i>Acta Biomaterialia</i> , 2021, 126, 433-444.	4.1	12
49	The synthesis of silica nanotubes through chlorosilanization of single wall carbon nanotubes. <i>Nanotechnology</i> , 2010, 21, 365604.	1.3	10
50	Cost-effective liquid-junction solar devices with plasma-implanted Ni/TiN/CNF hierarchically structured nanofibers. <i>Journal of Electroanalytical Chemistry</i> , 2021, 887, 115167.	1.9	10
51	WNT1-inducible signaling pathway protein 1 regulates the development of kidney fibrosis through the TGF- β 1 pathway. <i>FASEB Journal</i> , 2020, 34, 14507-14520.	0.2	9
52	Substrate-dependent arrangements of the subunits of the BAM complex determined by neutron reflectometry. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183587.	1.4	9
53	Structure of adsorbed layers of nitrophenoxy-tailed quaternary ammonium surfactants at the air/water interface studied by neutron reflection. <i>Journal of Colloid and Interface Science</i> , 2008, 325, 114-121.	5.0	8
54	Reversible coupling of 4-nitroaniline molecules to 4-aminothiophenol functionalized on Ag nanoparticle/graphene oxide nanocomposites through the plasmon assisted chemical reaction. <i>RSC Advances</i> , 2016, 6, 29453-29459.	1.7	8

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55	Characterization of BamA reconstituted into a solid-supported lipid bilayer as a platform for measuring dynamics during substrate protein assembly into the membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183317.	1.4	8
56	Intraocular Pressure Induced Retinal Changes Identified Using Synchrotron Infrared Microscopy. <i>PLoS ONE</i> , 2016, 11, e0164035.	1.1	5
57	WNT1-inducible signaling pathway protein 1 regulates kidney inflammation through the NF- κ B pathway. <i>Clinical Science</i> , 2022, 136, 29-44.	1.8	4
58	Neutron Reflectometry for Studying Proteins/Peptides in Biomimetic Membranes. , 2016, , .		0