

Dong Woog Lee

List of Publications by Year in descending order

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63
papers

3,080
citations

218677

26
h-index

161849

54
g-index

65
all docs

65
docs citations

65
times ranked

4413
citing authors

#	ARTICLE	IF	CITATIONS
1	Size compatibility and concentration dependent supramolecular host-guest interactions at interfaces. <i>Nature Communications</i> , 2022, 13, 112.	12.8	19
2	Antigen-Antibody Interaction-Derived Bioadhesion of Bacterial Cellulose Nanofibers to Promote Topical Wound Healing. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
3	Strong interfacial energetics between catalysts and current collectors in aqueous sodium-air batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4601-4610.	10.3	10
4	Understanding the Role of a Water-Soluble Catechol-Functionalized Binder for Silicon Anodes by Diverse In Situ Analyses. , 2022, 4, 831-839.		15
5	Peptidomimetic Wet-Adhesive PEGtides with Synergistic and Multimodal Hydrogen Bonding. <i>Journal of the American Chemical Society</i> , 2022, 144, 6261-6269.	13.7	17
6	Carboxyethyl acrylate incorporated optically clear adhesives with outstanding adhesion strength and immediate strain recoverability for stretchable electronics. <i>Chemical Engineering Journal</i> , 2022, 437, 135390.	12.7	17
7	Prussian Blue Nanolayer-Embedded Separator for Selective Segregation of Nickel Dissolution in High Nickel Cathodes. <i>Nano Letters</i> , 2022, 22, 1804-1811.	9.1	10
8	Essential Role of Thiols in Maintaining Stable Catecholato-Iron Complexes in Condensed Materials. <i>Chemistry of Materials</i> , 2022, 34, 5074-5083.	6.7	10
9	Superaerophobic Polyethyleneimine Hydrogels for Improving Electrochemical Hydrogen Production by Promoting Bubble Detachment. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	41
10	Stretchable and recoverable acrylate-based pressure sensitive adhesives with high adhesion performance, optical clarity, and metal corrosion resistance. <i>Chemical Engineering Journal</i> , 2021, 406, 126800.	12.7	34
11	Intermolecular interactions of chitosan: Degree of acetylation and molecular weight. <i>Carbohydrate Polymers</i> , 2021, 259, 117782.	10.2	62
12	Adaptive amphiphilic interaction mechanism of hydroxypropyl methylcellulose in water. <i>Applied Surface Science</i> , 2021, 565, 150535.	6.1	12
13	Mussel-Inspired Multiloop Polyethers for Antifouling Surfaces. <i>Biomacromolecules</i> , 2021, 22, 5173-5184.	5.4	12
14	pH-Dependent interaction mechanism of lignin nanofilms. <i>Nanoscale</i> , 2021, 13, 19568-19577.	5.6	3
15	Contact-induced molecular rearrangement of acrylic acid-incorporated pressure sensitive adhesives. <i>Applied Surface Science</i> , 2020, 500, 144246.	6.1	18
16	In-Depth Study of the Interaction Mechanism between the Lignin Nanofilms: Toward a Renewable and Organic Solvent-Free Binder. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 362-371.	6.7	13
17	Bioinspired polymers for lubrication and wear resistance. <i>Progress in Polymer Science</i> , 2020, 110, 101298.	24.7	41
18	The shape and dynamics of deformations of viscoelastic fluids by water droplets. <i>Journal of Colloid and Interface Science</i> , 2020, 580, 776-784.	9.4	2

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19	Mussel-Inspired Copolyether Loop with Superior Antifouling Behavior. <i>Macromolecules</i> , 2020, 53, 3551-3562.	4.8	47
20	Superaerophobic hydrogels for enhanced electrochemical and photoelectrochemical hydrogen production. <i>Science Advances</i> , 2020, 6, eaaz3944.	10.3	76
21	Multimodal Miniature Surface Forces Apparatus (M ² SFA) for Interfacial Science Measurements. <i>Langmuir</i> , 2019, 35, 15500-15514.	3.5	12
22	Development of Poly(methyl methacrylate)-Based Copolymers with Improved Heat Resistance and Reduced Moisture Absorption. <i>Langmuir</i> , 2019, 35, 15880-15886.	3.5	6
23	Probing molecular mechanisms of M13 bacteriophage adhesion. <i>Communications Chemistry</i> , 2019, 2, .	4.5	9
24	Real-Time QCM-D Monitoring of Deposition of Gold Nanorods on a Supported Lipid Bilayer as a Model Cell Membrane. <i>ACS Omega</i> , 2019, 4, 6059-6067.	3.5	8
25	Effects of monomer functionality on physical properties of 2-ethylhexyl acrylate based stretchable pressure sensitive adhesives. <i>Polymer Testing</i> , 2019, 76, 305-311.	4.8	27
26	Probing nanomechanical interaction at the interface between biological membrane and potentially toxic chemical. <i>Journal of Hazardous Materials</i> , 2018, 353, 271-279.	12.4	13
27	Revisiting the Interaction Force Measurement between Lipid Bilayers Using a Surface Forces Apparatus (SFA). <i>Journal of Oleo Science</i> , 2018, 67, 1361-1372.	1.4	7
28	Rates of cavity filling by liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8070-8075.	7.1	21
29	Simple-to-Apply Wetting Model to Predict Thermodynamically Stable and Metastable Contact Angles on Textured/Rough/Patterned Surfaces. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5642-5656.	3.1	64
30	Surface Forces and Nanorheology of Molecularly Thin Films. , 2017, , 457-518.		8
31	Contact Angle and Adhesion Dynamics and Hysteresis on Molecularly Smooth Chemically Homogeneous Surfaces. <i>Langmuir</i> , 2017, 33, 10041-10050.	3.5	15
32	Significant Performance Enhancement of Polymer Resins by Bioinspired Dynamic Bonding. <i>Advanced Materials</i> , 2017, 29, 1703026.	21.0	63
33	Surface Forces and Nanorheology of Molecularly Thin Films. <i>Springer Handbooks</i> , 2017, , 935-985.	0.6	3
34	Underwater contact adhesion and microarchitecture in polyelectrolyte complexes actuated by solvent exchange. <i>Nature Materials</i> , 2016, 15, 407-412.	27.5	379
35	Interaction Forces between Supported Lipid Bilayers in the Presence of PEGylated Polymers. <i>Biomacromolecules</i> , 2016, 17, 88-97.	5.4	11
36	Time-Dependent Wetting Behavior of PDMS Surfaces with Bioinspired, Hierarchical Structures. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8168-8174.	8.0	67

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37	Real-time intermembrane force measurements and imaging of lipid domain morphology during hemifusion. <i>Nature Communications</i> , 2015, 6, 7238.	12.8	24
38	Adsorption Mechanism of Myelin Basic Protein on Model Substrates and Its Bridging Interaction between the Two Surfaces. <i>Langmuir</i> , 2015, 31, 3159-3166.	3.5	20
39	Correlating steric hydration forces with water dynamics through surface force and diffusion NMR measurements in a lipid-d ₂ -DMSO-d ₆ -H ₂ O system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10708-10713.	7.1	32
40	Contact time- and pH-dependent adhesion and cohesion of low molecular weight chitosan coated surfaces. <i>Carbohydrate Polymers</i> , 2015, 117, 887-894.	10.2	72
41	Developing a General Interaction Potential for Hydrophobic and Hydrophilic Interactions. <i>Langmuir</i> , 2015, 31, 2051-2064.	3.5	188
42	Shear-Induced Aggregation of Mammalian Synovial Fluid Components under Boundary Lubrication Conditions. <i>Advanced Functional Materials</i> , 2014, 24, 3152-3161.	14.9	43
43	Lipid domains control myelin basic protein adsorption and membrane interactions between model myelin lipid bilayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E768-75.	7.1	52
44	Bioinspired Bottle-Brush Polymer Exhibits Low Friction and Amontons-like Behavior. <i>Journal of the American Chemical Society</i> , 2014, 136, 6199-6202.	13.7	234
45	Effects of molecular weight of grafted hyaluronic acid on wear initiation. <i>Acta Biomaterialia</i> , 2014, 10, 1817-1823.	8.3	34
46	Surface-initiated self-healing of polymers in aqueous media. <i>Nature Materials</i> , 2014, 13, 867-872.	27.5	414
47	Friction and Wear of Porcine Articular Joint and Effects of Selective Digestions. <i>Biophysical Journal</i> , 2013, 104, 382a.	0.5	0
48	The Intersection of Interfacial Forces and Electrochemical Reactions. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16369-16387.	2.6	15
49	Stick-slip friction and wear of articular joints. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E567-74.	7.1	84
50	Strong Adhesion and Cohesion of Chitosan in Aqueous Solutions. <i>Langmuir</i> , 2013, 29, 14222-14229.	3.5	153
51	Polymer Mediated Interactions Between Myelin Lipid Bilayers. <i>Biophysical Journal</i> , 2012, 102, 292a-293a.	0.5	0
52	Hyaluronic acid-collagen network interactions during the dynamic compression and recovery of cartilage. <i>Soft Matter</i> , 2012, 8, 9906.	2.7	14
53	Adhesion and hemifusion of cytoplasmic myelin lipid membranes are highly dependent on the lipid composition. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 402-410.	2.6	28
54	Lipid-Protein Interactions Alter Line Tensions and Domain Size Distributions in Lung Surfactant Monolayers. <i>Biophysical Journal</i> , 2012, 102, 56-65.	0.5	40

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55	Adsorption and Rheological Properties of Myelin Basic Protein and Effects On the Interaction Forces Between Myelin Bilayers. <i>Biophysical Journal</i> , 2012, 102, 78a.	0.5	0
56	Mobility of Capped Silver Nanoparticles under Environmentally Relevant Conditions. <i>Environmental Science & Technology</i> , 2012, 46, 6985-6991.	10.0	112
57	Interaction Forces Between Model Myelin Membranes. <i>Biophysical Journal</i> , 2011, 100, 633a.	0.5	0
58	Critical and Off-Critical Miscibility Transitions in Model Extracellular and Cytoplasmic Myelin Lipid Monolayers. <i>Biophysical Journal</i> , 2011, 100, 1490-1498.	0.5	25
59	Theory of Domain Formation on Model Myelin Monolayer System. <i>Biophysical Journal</i> , 2011, 100, 341a.	0.5	1
60	Relating domain size distribution to line tension and molecular dipole density in model cytoplasmic myelin lipid monolayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9425-9430.	7.1	62
61	Reply to McCutchen: Clarification of hydrodynamic and boundary lubrication mechanisms in joints. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E462-E462.	7.1	2
62	Adaptive mechanically controlled lubrication mechanism found in articular joints. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5255-5259.	7.1	200
63	A DNA intercalation-based electrochemical method for detection of <i>Chlamydia trachomatis</i> utilizing peroxidase-catalyzed signal amplification. <i>Biosensors and Bioelectronics</i> , 2008, 24, 665-669.	10.1	25