

Bum Jun Park

List of Publications by Year in descending order

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98
papers

3,244
citations

147726

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155592

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docs citations

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times ranked

3280
citing authors

#	ARTICLE	IF	CITATIONS
1	A handheld-type total integrated capillary electrophoresis system for SARS-CoV-2 diagnostics: Power, fluorescence detection, and data analysis by smartphone. <i>Biosensors and Bioelectronics</i> , 2022, 195, 113632.	5.3	17
2	Removal of bisphenol A from wastewater by physical, chemical and biological remediation techniques. A review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1801-1837.	8.3	42
3	Recyclable 2D Colloid Surfactants with High Catalytic Activities at Pickering Emulsion Interfaces. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
4	Phase-transfer biocatalytic methane-to-methanol conversion using the spontaneous phase-separable membrane ¼CSTR. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 111, 389-397.	2.9	3
5	Amine-bilayer-functionalized cellulose-chitosan composite hydrogel for the efficient uptake of hazardous metal cations and catalysis in polluted water. <i>Journal of Hazardous Materials</i> , 2022, 436, 129112.	6.5	29
6	A surfactant-free approach: Novel one-step ultrasonic nebulizer spray method to generate amphiphilic Janus particles. <i>Journal of Colloid and Interface Science</i> , 2022, 627, 375-384.	5.0	5
7	Formation of structural defects within UiO-66(Zr)-(OH) ₂ framework for enhanced CO ₂ adsorption using a microwave-assisted continuous-flow tubular reactor. <i>Microporous and Mesoporous Materials</i> , 2021, 312, 110746.	2.2	45
8	Dual-functional micro-adsorbents: Application for simultaneous adsorption of cesium and strontium. <i>Chemosphere</i> , 2021, 263, 128266.	4.2	37
9	Characteristics of a Multiple-Layered Graphene Oxide Memory Thin Film Transistor with Gold Nanoparticle Embedded as Charging Elements. <i>Journal of Nanomaterials</i> , 2021, 2021, 1-9.	1.5	3
10	Energetically Preferred Bilayered Coacervation of Oppositely Charged ZrHP Nanoplatelets. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7664-7671.	4.0	7
11	Waterproof Light-Emitting Metal Halide Perovskite-Polymer Composite Microparticles Prepared via Microfluidic Device. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2100006.	1.2	6
12	Biofuel upgrade reactions via phase-transfer catalysis of methanotrophs. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 95, 305-311.	2.9	5
13	Metal-organic frameworks/alginate composite beads as effective adsorbents for the removal of hexavalent chromium from aqueous solution. <i>Chemosphere</i> , 2021, 270, 129487.	4.2	66
14	Fabrication of kinetically stable micropolyfoam particles and the spontaneous induction of morphological transformation. <i>Chemical Engineering Journal</i> , 2021, 424, 130505.	6.6	1
15	Emulsions stabilized by fine dust particles. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 82, 190-196.	2.9	5
16	Interactions between polystyrene particles with diameters of several tens to hundreds of micrometers at the oil-water interface. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 838-848.	5.0	8
17	Preparation of eco-friendly alginate-based Pickering stabilizers using a dual ultrasonic nebulizer spray method. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 84, 96-105.	2.9	10
18	Interpretation of interfacial interactions between lenticular particles. <i>Journal of Colloid and Interface Science</i> , 2020, 580, 592-600.	5.0	3

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19	Janus amphiphilic nanoplatelets as smart colloid surfactants with complementary face-to-face interactions. <i>Chemical Communications</i> , 2020, 56, 6031-6034.	2.2	12
20	Interfacial Configurations of Lens-Shaped Particles. <i>Macromolecular Research</i> , 2020, 28, 953-959.	1.0	1
21	Interpretation of Electrostatic Self-Potential Measurements Using Interface-Trapped Microspheres with Surface Heterogeneity. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1304-1311.	2.0	6
22	Microwave-assisted continuous-flow synthesis of mixed-ligand UiO-66(Zr) frameworks and their application to toluene adsorption. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 86, 178-185.	2.9	48
23	Photoinduced Reversible Bending and Guest Molecule Release of Azobenzene-Containing Polydiacetylene Nanotubes. <i>Scientific Reports</i> , 2019, 9, 15982.	1.6	16
24	Uniform Ag Nanocubes Prepared by AgCl Particle-Mediated Heterogeneous Nucleation and Disassembly and Their Mechanism Study by DFT Calculation. <i>Small</i> , 2019, 15, 1904031.	5.2	2
25	The recyclability of alginate hydrogel particles used as a palladium catalyst support. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 73, 306-315.	2.9	34
26	Mapping Anisotropic and Heterogeneous Colloidal Interactions via Optical Laser Tweezers. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1691-1697.	2.1	15
27	Low temperature solution processable TiO ₂ nano-sol for electron transporting layer of flexible perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019, 194, 1-6.	3.0	30
28	Direct measurement of electrostatic interactions between poly(methyl methacrylate) microspheres with optical laser tweezers. <i>Soft Matter</i> , 2019, 15, 8051-8058.	1.2	7
29	Multiple roles of palladium-coated magnetic anisotropic particles as catalysts, catalyst supports, and micro-stirrers. <i>Chemical Engineering Journal</i> , 2018, 339, 125-132.	6.6	22
30	Efficient catalyst recovery systems based on Pd-coated γ -alumina particles. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 471-478.	2.9	5
31	Smartphone-Based VOC Sensor Using Colorimetric Polydiacetylenes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5014-5021.	4.0	106
32	Heterogeneous Capillary Interactions of Interface-Trapped Ellipsoid Particles Using the Trap-Release Method. <i>Langmuir</i> , 2018, 34, 384-394.	1.6	17
33	Magnetic-Patchy Janus Colloid Surfactants for Reversible Recovery of Pickering Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1408-1414.	4.0	36
34	One-step production of highly anisotropic particles via a microfluidic method. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 64, 328-336.	2.9	9
35	Highly efficient catalytic systems based on Pd-coated microbeads. <i>Applied Surface Science</i> , 2018, 429, 108-114.	3.1	5
36	Long-term stable hydrophilic surface modification of poly(ether ether ketone) via the multilayered chemical grafting method. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46042.	1.3	13

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37	High Yield Synthesis of Polystyrene Microspheres by Continuous Long Tubular Reactor and Their Application to Antiglare Film for High Resolution Displays. <i>Macromolecular Research</i> , 2018, 26, 1095-1098.	1.0	0
38	Geometric Effects of Colloidal Particles on Stochastic Interface Adsorption. <i>Langmuir</i> , 2018, 34, 8839-8847.	1.6	12
39	Fabrication of Magnetically Stirrable Anisotropic Microparticles via the Microfluidic Method. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700486.	1.2	11
40	Analytical calculations of optical trapping forces for drag calibration: Effects of mismatch between beam focus and particle center. <i>Macromolecular Research</i> , 2017, 25, 282-289.	1.0	6
41	Electrostatic interactions between particles through heterogeneous fluid phases. <i>Soft Matter</i> , 2017, 13, 6647-6658.	1.2	2
42	Heterogeneous interface adsorption of colloidal particles. <i>Soft Matter</i> , 2017, 13, 6234-6242.	1.2	21
43	High-Performance Solid-State PbS Quantum Dot-Sensitized Solar Cells Prepared by Introduction of Hybrid Perovskite Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41104-41110.	4.0	22
44	Aqueous-phase synthesis of metal nanoparticles using phosphates as stabilizers. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 231-233.	1.2	1
45	Flexible patch-type hydrochromic polydiacetylene sensor for human sweat pore mapping. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	13
46	Morphological evolution of copper nanoparticles: Microemulsion reactor system versus batch reactor system. <i>Journal of Crystal Growth</i> , 2017, 469, 31-35.	0.7	6
47	Transition Behaviors of Configurations of Colloidal Particles at a Curved Oil-Water Interface. <i>Materials</i> , 2016, 9, 138.	1.3	12
48	Effect of Geometric and Chemical Anisotropy of Janus Ellipsoids on Janus Boundary Mismatch at the Fluid-Fluid Interface. <i>Materials</i> , 2016, 9, 664.	1.3	14
49	Inkjet Printing: Inkjet-Printable Amphiphilic Polydiacetylene Precursor for Hydrochromic Imaging on Paper (<i>Adv. Funct. Mater.</i> 4/2016). <i>Advanced Functional Materials</i> , 2016, 26, 631-631.	7.8	1
50	Hydrochromic Approaches to Mapping Human Sweat Pores. <i>Accounts of Chemical Research</i> , 2016, 49, 1211-1222.	7.6	84
51	Creation of functional polydiacetylene images on paper using inkjet printing technology. <i>Macromolecular Research</i> , 2016, 24, 943-950.	1.0	14
52	A Facile Surface Modification of Polyethylenimine-Stabilized Gold Nanoparticles and Their Enhanced Cytotoxicity. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 7043-7048.	0.9	2
53	Capillarity-induced directed self-assembly of patchy hexagram particles at the air-water interface. <i>Soft Matter</i> , 2016, 12, 5847-5853.	1.2	17
54	Inkjet-Printable Amphiphilic Polydiacetylene Precursor for Hydrochromic Imaging on Paper. <i>Advanced Functional Materials</i> , 2016, 26, 498-506.	7.8	109

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55	Synthesis of Monodisperse Biocompartmentalized Amphiphilic Janus Microparticles for Tailored Assembly at the Oil-Water Interface. <i>Angewandte Chemie</i> , 2016, 128, 4585-4589.	1.6	10
56	Synthesis of Monodisperse Biocompartmentalized Amphiphilic Janus Microparticles for Tailored Assembly at the Oil-Water Interface. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4509-4513.	7.2	47
57	Sweat Pore Mapping Using Hydrophilic Polymer Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 12263-12267.	0.9	2
58	Sonoanatomical Change of Phrenic Nerve According to Posture During Ultrasound-Guided Stellate Ganglion Block. <i>Annals of Rehabilitation Medicine</i> , 2016, 40, 244.	0.6	10
59	Dynamically Tuning Particle Interactions and Assemblies at Soft Interfaces: Reversible Order-Disorder Transitions in 2D Particle Monolayers. <i>Small</i> , 2015, 11, 4560-4567.	5.2	16
60	Heterogeneity of single-colloid self-potentials at an oil-water interface. <i>Soft Matter</i> , 2015, 11, 8812-8817.	1.2	8
61	Sweat pore mapping using a fluorescein-polymer composite film for fingerprint analysis. <i>Chemical Communications</i> , 2015, 51, 3177-3180.	2.2	32
62	Stabilization and fabrication of microbubbles: applications for medical purposes and functional materials. <i>Soft Matter</i> , 2015, 11, 2067-2079.	1.2	88
63	Lateral capillary interactions between colloids beneath an oil-water interface that are driven by out-of-plane electrostatic double-layer interactions. <i>Soft Matter</i> , 2015, 11, 8701-8706.	1.2	16
64	Effect of interaction heterogeneity on colloidal arrangements at a curved oil-water interface. <i>Soft Matter</i> , 2015, 11, 318-323.	1.2	8
65	Ultrasound-Guided Lateral Femoral Cutaneous Nerve Conduction Study. <i>Annals of Rehabilitation Medicine</i> , 2015, 39, 47.	0.6	16
66	Shoulder Manipulation After Distention Arthrography: Does Audible Cracking Affect Improvement in Adhesive Capsulitis? A Preliminary Study. <i>Annals of Rehabilitation Medicine</i> , 2015, 39, 745.	0.6	3
67	Particles at fluid-fluid interfaces: From single-particle behavior to hierarchical assembly of materials. <i>MRS Bulletin</i> , 2014, 39, 1089-1098.	1.7	39
68	CHAPTER 2. Interactions and Conformations of Particles at Fluid-Fluid Interfaces. <i>RSC Soft Matter</i> , 2014, , 8-44.	0.2	4
69	A Rapid One-Step Fabrication of Patternable Superhydrophobic Surfaces Driven by Marangoni Instability. <i>Langmuir</i> , 2014, 30, 2828-2834.	1.6	31
70	Hydrochromic conjugated polymers for human sweat pore mapping. <i>Nature Communications</i> , 2014, 5, 3736.	5.8	213
71	Triblock Cylinders at Fluid-Fluid Interfaces. <i>Langmuir</i> , 2014, 30, 13199-13204.	1.6	11
72	Pairwise interactions of colloids in two-dimensional geometric confinement. <i>Soft Matter</i> , 2014, 10, 9675-9680.	1.2	15

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73	Effects of Coating on the Optical Trapping Efficiency of Microspheres via Geometrical Optics Approximation. <i>Langmuir</i> , 2014, 30, 11055-11061.	1.6	6
74	Beauty of Lotus is More than Skin Deep: Highly Buoyant Superhydrophobic Films. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7009-7013.	4.0	23
75	Sonographic Evaluation of the Peripheral Nerves in Hereditary Neuropathy With Liability to Pressure Palsies: A Case Report. <i>Annals of Rehabilitation Medicine</i> , 2014, 38, 109.	0.6	8
76	Optical trapping forces depending on size of dielectric polystyrene microspheres. <i>Macromolecular Research</i> , 2013, 21, 1167-1170.	1.0	8
77	Thermodynamically Stable Emulsions Using Janus Dumbbells as Colloid Surfactants. <i>Langmuir</i> , 2013, 29, 12679-12687.	1.6	98
78	Geometrically and chemically anisotropic particles at an oil/water interface. <i>Soft Matter</i> , 2013, 9, 3383.	1.2	59
79	Amphiphilic Janus particles at fluid interfaces. <i>Soft Matter</i> , 2013, 9, 6604.	1.2	190
80	Spontaneous Particle Transport through a Triple-Fluid Phase Boundary. <i>Langmuir</i> , 2013, 29, 9662-9667.	1.6	9
81	Double Hydrophilic Janus Cylinders at an Air/Water Interface. <i>Langmuir</i> , 2013, 29, 1841-1849.	1.6	42
82	The Effect of Electrolyte Concentration for Colloid Adsorption toward a Fluid-Fluid Interface. <i>Korean Chemical Engineering Research</i> , 2013, 51, 527-530.	0.2	3
83	Attachment Energy of Janus Particles at Fluid-Fluid Interfaces. <i>Korean Chemical Engineering Research</i> , 2013, 51, 655-660.	0.2	0
84	Configuration of nonspherical amphiphilic particles at a fluid/fluid interface. <i>Soft Matter</i> , 2012, 8, 7690.	1.2	77
85	Equilibrium Orientation of Nonspherical Janus Particles at Fluid/Fluid Interfaces. <i>ACS Nano</i> , 2012, 6, 782-790.	7.3	154
86	Micromechanics of colloidal aggregates at the oil/water interface. <i>Soft Matter</i> , 2011, 7, 7683.	1.2	14
87	Attractive interactions between colloids at the oil/water interface. <i>Soft Matter</i> , 2011, 7, 7676.	1.2	124
88	Janus particles at an oil/water interface. <i>Soft Matter</i> , 2011, 7, 6413.	1.2	157
89	Generation of Amphiphilic Janus Bubbles and Their Behavior at an Air/Water Interface. <i>Advanced Functional Materials</i> , 2011, 21, 3924-3931.	7.8	59
90	Abdominal Visceral Adipose Tissue Predicts Risk of Colorectal Adenoma in Both Sexes. <i>Clinical Gastroenterology and Hepatology</i> , 2010, 8, 443-450.e2.	2.4	79

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91	Fabrication of Unusual Asymmetric Colloids at an Oil-Water Interface. Langmuir, 2010, 26, 10406-10410.	1.6	46
92	Finite Ion-Size Effects Dominate the Interaction between Charged Colloidal Particles at an Oil-Water Interface. Physical Review Letters, 2010, 105, 048303.	2.9	121
93	Fluid-interface templating of two-dimensional colloidal crystals. Soft Matter, 2010, 6, 485-488.	1.2	26
94	Heterogeneity of the electrostatic repulsion between colloids at the oil-water interface. Soft Matter, 2010, 6, 5327.	1.2	93
95	Direct Measurements of the Effects of Salt and Surfactant on Interaction Forces between Colloidal Particles at Water-Oil Interfaces. Langmuir, 2008, 24, 1686-1694.	1.6	186
96	Optical Trapping Forces for Colloids at the Oil-Water Interface. Langmuir, 2008, 24, 13383-13392.	1.6	45
97	The solid-phase synthesis of amino acid-derived diacetylene lipids. Macromolecular Research, 2005, 13, 253-256.	1.0	3
98	Patterned fluorescence images with at-Boc-protected coumarin derivative. Macromolecular Research, 2004, 12, 615-617.	1.0	5