

and Ilona Kretzschmar

List of Publications by Year in descending order

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82
papers

4,667
citations

136950

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95266

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86
all docs

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docs citations

86
times ranked

4401
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface tension anomaly observed for chemically-modified Janus particles at the air/water interface. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 95-99.	9.4	35
2	Effect of Orientation and Wetting Properties on the Behavior of Janus Particles at the Air/Water Interface. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5128-5135.	8.0	6
3	Frenkel excitons in heat-stressed supramolecular nanocomposites enabled by tunable cage-like scaffolding. <i>Nature Chemistry</i> , 2020, 12, 1157-1164.	13.6	17
4	Exploring the Correlation between Stability, Fluxionality, and Absorption Spectra of Ultrasmall CdSe Clusters: A Computational Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12672-12681.	3.1	2
5	Preface to the Advances in Active Materials Special Issue. <i>Langmuir</i> , 2020, 36, 6859-6860.	3.5	1
6	Pt-SiO ₂ Janus Particles and the Water/Oil Interface: A Competition between Motility and Thermodynamics. <i>Langmuir</i> , 2020, 36, 6880-6887.	3.5	24
7	Self-assembly of magnetic colloids with radially shifted dipoles. <i>Soft Matter</i> , 2020, 16, 2460-2472.	2.7	8
8	Broadband chiral hybrid plasmon modes on nanofingernail substrates. <i>Nanoscale</i> , 2020, 12, 3827-3833.	5.6	2
9	Floor- or Ceiling-Sliding for Chemically Active, Gyrotactic, Sedimenting Janus Particles. <i>Langmuir</i> , 2020, 36, 7133-7147.	3.5	20
10	Kinetics of Formation of Quantum Dot Solvent <i>N</i> -Oleoylmorpholine. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 8562-8570.	3.7	0
11	Impact of Surface Amphiphilicity on the Interfacial Behavior of Janus Particle Layers under Compression. <i>Langmuir</i> , 2019, 35, 15813-15824.	3.5	33
12	Measuring, Modeling, and Predicting the Magnetic Assembly Rate of 2D-Staggered Janus Particle Chains. <i>Langmuir</i> , 2019, 35, 8121-8130.	3.5	9
13	Self-assembly of magnetic colloids with shifted dipoles. <i>Soft Matter</i> , 2019, 15, 4078-4086.	2.7	16
14	Investigation on electrical surface modification of waste to energy ash for possible use as an electrode material in microbial fuel cells. <i>Waste Management and Research</i> , 2018, 36, 259-268.	3.9	3
15	Experimental Study of the Motion of Patchy Particle Swimmers Near a Wall. <i>Langmuir</i> , 2018, 34, 15593-15599.	3.5	19
16	Janus particle-based microprobes: Determination of object orientation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 513, 452-462.	4.7	7
17	Control of photo-induced voltages in plasmonic crystals via spin-orbit interactions. <i>Optics Express</i> , 2016, 24, 10402.	3.4	14
18	Towards a Large-area Plasmonic Polarization Detector. , 2016, , .		0

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19	Directed Motion of Metallo-dielectric Particles by Contact Charge Electrophoresis. <i>Langmuir</i> , 2016, 32, 13167-13173.	3.5	21
20	Impact of particle shape on electron transport and lifetime in zinc oxide nanorod-based dye-sensitized solar cells. <i>AIMS Materials Science</i> , 2016, 3, 51-65.	1.4	5
21	Collapse of Particle-Laden Interfaces under Compression: Buckling vs Particle Expulsion. <i>Langmuir</i> , 2015, 31, 7764-7775.	3.5	90
22	Mechanical Stability of Polystyrene and Janus Particle Monolayers at the Air/Water Interface. <i>Journal of the American Chemical Society</i> , 2015, 137, 15370-15373.	13.7	50
23	Nanoparticles at liquid interfaces: Rotational dynamics and angular locking. <i>Journal of Chemical Physics</i> , 2014, 140, 014904.	3.0	20
24	Using the discrete dipole approximation and holographic microscopy to measure rotational dynamics of non-spherical colloidal particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 499-509.	2.3	55
25	Evaluation of the Structure and Transport Properties of Nanostructured Antimony Telluride (Sb ₂ Te ₃). <i>Journal of Electronic Materials</i> , 2014, 43, 1927-1932.	2.2	10
26	Two-Dimensional Array of Silica Particles as a SERS Substrate. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9114-9118.	3.1	24
27	Molecular Dynamics Simulations: Insight into Molecular Phenomena at Interfaces. <i>Langmuir</i> , 2014, 30, 11272-11283.	3.5	41
28	Behaviour of iron oxide (Fe ₃ O ₄) Janus particles in overlapping external AC electric and static magnetic fields. <i>Soft Matter</i> , 2013, 9, 9174.	2.7	48
29	The effect of capillary bridging on the Janus particle stability at the interface of two immiscible liquids. <i>Soft Matter</i> , 2013, 9, 4585.	2.7	28
30	Template-Assisted GLAD: Approach to Single and Multipatch Patchy Particles with Controlled Patch Shape. <i>Langmuir</i> , 2013, 29, 15755-15761.	3.5	29
31	Viscosity-Dependent Janus Particle Chain Dynamics. <i>Langmuir</i> , 2013, 29, 14779-14786.	3.5	18
32	Three-dimensionally ordered macroporous TiO ₂ electrodes: Fabrication of inverse TiO ₂ opals for pore-size-dependent characterization. <i>Journal of Materials Research</i> , 2013, 28, 369-377.	2.6	6
33	Molecular dynamics simulations of the evaporation of particle-laden droplets. <i>Physical Review E</i> , 2013, 87, 052404.	2.1	20
34	Effect of Janus particles as filler materials for acrylate-based dielectric elastomers. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
35	Template-Assisted Fabrication of Patchy Particles with Uniform Patches. <i>Langmuir</i> , 2012, 28, 9915-9919.	3.5	45
36	Assembly Behavior of Iron Oxide-Capped Janus Particles in a Magnetic Field. <i>Langmuir</i> , 2012, 28, 1149-1156.	3.5	87

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37	Chapter 8. Self-assembly of Janus Particles Under External Fields. RSC Smart Materials, 2012, , 168-203.	0.1	1
38	Topological Transitions in Metamaterials. Science, 2012, 336, 205-209.	12.6	734
39	Spontaneous emission enhancement using hyperbolic metamaterials. , 2011, , .		0
40	Coalescence of particle-laden drops with a planar oil-water interface. Journal of Colloid and Interface Science, 2011, 362, 235-241.	9.4	8
41	Surface-anisotropic spherical colloids in geometric and field confinement. Current Opinion in Colloid and Interface Science, 2011, 16, 84-95.	7.4	65
42	Fabrication, Assembly, and Application of Patchy Particles. Macromolecular Rapid Communications, 2010, 31, 150-168.	3.9	358
43	Macromol. Rapid Commun. 2/2010. Macromolecular Rapid Communications, 2010, 31, .	3.9	360
44	Guided ion beam and theoretical studies of the reaction of Ag ⁺ with CS ₂ : Gas-phase thermochemistry of AgS ⁺ and AgCS ⁺ and insight into spin-forbidden reactions. Journal of Chemical Physics, 2010, 132, 024306.	3.0	4
45	Programmed assembly of metallodielectric patchy particles in external AC electric fields. Soft Matter, 2010, 6, 1413.	2.7	124
46	Guided ion beam and theoretical studies of the reaction of Ru ⁺ with CS ₂ in the gas-phase: thermochemistry of RuC ⁺ , RuS ⁺ , and RuCS ⁺ . Physical Chemistry Chemical Physics, 2010, 12, 4078.	2.8	16
47	Photoluminescence modification in self-assembled fluorescent 3D photonic crystals. , 2010, , .		1
48	Multifunctional Patchy Particles by Glancing Angle Deposition. Langmuir, 2009, 25, 9057-9063.	3.5	149
49	Guided Ion Beam and Theoretical Studies of the Reactions of Pd ⁺ with CS ₂ : Thermochemistry of PdS ⁺ and PdCS ⁺ . Inorganic Chemistry, 2009, 48, 10371-10382.	4.0	13
50	Experimental and Theoretical Studies of the Reaction of Rh ⁺ with CS ₂ in the Gas Phase: Thermochemistry of RhS ⁺ and RhCS ⁺ . Journal of Physical Chemistry A, 2009, 113, 10955-10965.	2.5	10
51	Assembled Surface-Anisotropic Colloids as a Template for a Multistage Catalytic Membrane Reactor. ACS Applied Materials & Interfaces, 2009, 1, 1747-1754.	8.0	19
52	Patchy Particles by Glancing Angle Deposition. Langmuir, 2008, 24, 355-358.	3.5	212
53	Colloid-Templated Multisectional Porous Polymeric Fibers. Langmuir, 2008, 24, 10616-10620.	3.5	10
54	Self-Assembly of T-Structures in Molecular Fluids. Journal of Physical Chemistry B, 2007, 111, 2081-2089.	2.6	17

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55	Surface-Anisotropic Polystyrene Spheres by Electroless Deposition. <i>Langmuir</i> , 2006, 22, 8281-8284.	3.5	65
56	Gas-phase thermochemistry of the early cationic transition-metal sulfides of the second row: YS ⁺ , ZrS ⁺ , and NbS ⁺ . <i>International Journal of Mass Spectrometry</i> , 2006, 249-250, 263-278.	1.5	42
57	Electropolymerization on Microelectrodes: A Functionalization Technique for Selective Protein and DNA Conjugation. <i>Analytical Chemistry</i> , 2006, 78, 6340-6346.	6.5	28
58	Electrical characterization of single GaN nanowires. <i>Nanotechnology</i> , 2005, 16, 2941-2953.	2.6	105
59	The Cyclopropylmethyl ³ -Butenyl Rearrangement on Mo(110): A Radical Clock on a Surface? <i>Journal of Physical Chemistry A</i> , 2004, 108, 2972-2981.	2.5	11
60	Inelastic Electron Tunneling Spectroscopy of an Alkanedithiol Self-Assembled Monolayer. <i>Nano Letters</i> , 2004, 4, 643-646.	9.1	364
61	Structure, thermochemistry, and reactivity of MSn ⁺ cations (M=V, Mo; n=1-3) in the gas phase. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 439-456.	1.5	30
62	Effect of Coadsorbed Species and Temperature on Competitive Reaction Channels for Nascent Radicals: C ₃ H ₇ CH ₂ SH on Mo(110)(6 Å ⁻¹)-O. <i>Journal of Physical Chemistry B</i> , 2002, 106, 663-672.	2.6	9
63	Kinetic Control of Surface Reactions: A Regioselectivity in the Reaction of 2-Methylcyclopropylmethanol on Mo(110)(6 Å ⁻¹)-O. <i>Journal of Physical Chemistry B</i> , 2002, 106, 8407-8414.	2.6	2
64	Guided Ion Beam Studies of the Reactions of Ni ⁺ , Cu ⁺ , and Zn ⁺ with CS ₂ and COS. <i>Journal of Physical Chemistry A</i> , 2002, 106, 9788-9797.	2.5	57
65	Rearrangement as a probe for radical formation: bromomethylcyclopropane on oxygen-covered Mo(110). <i>Surface Science</i> , 2001, 479, 273-286.	1.9	6
66	Guided Ion Beam Studies of the Reactions of Fe ⁺ and Co ⁺ with CS ₂ and COS. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8456-8464.	2.5	47
67	Platinum Dioxide Cation: A Easy to Generate Experimentally but Difficult to Describe Theoretically. <i>Journal of the American Chemical Society</i> , 2001, 123, 142-147.	13.7	127
68	Gas-Phase Chemistry of Bare V ⁺ Cation with Oxygen and Water at Room Temperature: Formation and Hydration of Vanadium Oxide Cations. <i>Journal of Physical Chemistry A</i> , 2001, 105, 4259-4271.	2.5	74
69	Guided ion beam studies of the state-specific reactions of Cr ⁺ and Mn ⁺ with CS ₂ and COS. <i>International Journal of Mass Spectrometry</i> , 2001, 210-211, 283-301.	1.5	46
70	11 The binding in neutral and cationic 3d and 4d transition-metal monoxides and-sulfides. <i>Advances in Metal and Semiconductor Clusters</i> , 2001, , 347-395.	1.5	42
71	Thermochemistry and Reactivity of Cationic Scandium and Titanium Sulfide in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2000, 104, 5046-5058.	2.5	78
72	Hydroxymethylcyclopropane on Oxygen-Covered Mo(110): A Radical Clock on a Surface. <i>Journal of the American Chemical Society</i> , 2000, 122, 12395-12396.	13.7	11

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73	PCCP does exist. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 2245-2250.	2.8	17
74	Kinetic-energy dependence of competitive spin-allowed and spin-forbidden reactions: $V^{++}+CS_2$. <i>Journal of Chemical Physics</i> , 1999, 110, 7858-7870.	3.0	112
75	Hydrodesulfurization of FeS^+ : [^] Predominance of Kinetic over Thermodynamic Control. <i>Journal of Physical Chemistry A</i> , 1999, 103, 5925-5934.	2.5	26
76	On the Structural Dichotomy of Cationic, Anionic, and Neutral FeS_2 . <i>Inorganic Chemistry</i> , 1999, 38, 3474-3480.	4.0	52
77	Iron-Mediated Amination of Hydrocarbons in the Gas Phase. <i>Helvetica Chimica Acta</i> , 1998, 81, 2348-2369.	1.6	31
78	Mass-Spectrometric Experiments together with Electronic Structure Calculations Support the Existence of the Elusive Ammonia Oxide Molecule and Its Radical Cation. <i>European Journal of Inorganic Chemistry</i> , 1998, 1998, 1529-1538.	2.0	24
79	Experimental and Theoretical Studies of Vanadium Sulfide Cation. <i>Journal of Physical Chemistry A</i> , 1998, 102, 10060-10073.	2.5	74
80	Effects of Sequential Ligation of Molybdenum Cation by Chalcogenides on Electronic Structure and Gas-Phase Reactivity [^] . <i>Journal of Physical Chemistry A</i> , 1997, 101, 6252-6264.	2.5	138
81	The tropylium/benzylum ion dichotomy in the gas-phase reactions of transition metal chalcogenide cations with toluene. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 167-168, 103-115.	1.8	20
82	Chromium Dioxide Cation $OCrO^+$ in the Gas Phase: [^] Structure, Electronic States, and the Reactivity with Hydrogen and Hydrocarbons ¹ . <i>Journal of the American Chemical Society</i> , 1996, 118, 9941-9952.	13.7	115