Bjoern Braunschweig

List of Publications by Year
in descending order

69 papers	2,355 citations	172386 29 h-index	223716 46 g-index
69 all docs	69 docs citations	69 times ranked	3201 citing authors

#	Article	IF	Citations
1	Role of imidazolium cations on the interfacial structure of roomâ€temperature ionic liquids in contact with Pt(111) electrodes. Electrochemical Science Advances, 2023, 3, .	1.2	6
2	pH effects on the molecular structure and charging state of Î²-Escin biosurfactants at the air-water interface. Journal of Colloid and Interface Science, 2022, 607, 1754-1761.	5.0	12
3	Responsive Material and Interfacial Properties through Remote Control of Polyelectrolyteâ€“Surfactant Mixtures. ACS Applied Materials & Interfaces, 2022, 14, 4656-4667.	4.0	5
4	Structure-property relations of Î²-lactoglobulin/Îº-carrageenan mixtures in aqueous foam. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 640, 128267.	2.3	10
5	Dynamic Wetting of Photoresponsive Arylazopyrazole Monolayers is Controlled by the Molecular Kinetics of the Monolayer. Journal of the American Chemical Society, 2022, 144, 4026-4038.	6.6	12
6	Adsorption of CTAB on Sapphire-<i>c</i> at High pH: Surface and Zeta Potential Measurements Combined with Sum-Frequency and Second-Harmonic Generation. Langmuir, 2022, 38, 3380-3391.	1.6	4
7	Cations of Ionic Liquid Electrolytes Can Act as a Promoter for CO₂ Electrocatalysis through Reactive Intermediates and Electrostatic Stabilization. Journal of Physical Chemistry C, 2021, 125, 16498-16507.	1.5	20
8	Memory effects in polymer brushes showing co-nonsolvency effects. Advances in Colloid and Interface Science, 2021, 294, 102442.	7.0	11
9	Light-induced switching of polymer-surfactant interactions enables controlled polymer thermoresponsive behaviour. Chemical Communications, 2021, 57, 5826-5829.	2.2	6
10	Nanoscale Effects on the Surfactant Adsorption and Interface Charging in Hexadecane/Water Emulsions. ACS Nano, 2021, 15, 20136-20147.	7.3	7
11	Photo-Switchable Surfactants for Responsive Airâ€“Water Interfaces: Azo versus Arylazopyrazole Amphiphiles. Journal of Physical Chemistry B, 2020, 124, 6913-6923.	1.2	17
12	A cyclodextrin surfactant for stable emulsions with an accessible cavity for hostâ€“guest complexation. Chemical Communications, 2020, 56, 15434-15437.	2.2	9
13	Î²-Lactoglobulin Adsorption Layers at the Water/Air Surface: 4. Impact on the Stability of Foam Films and Foams. Minerals (Basel, Switzerland), 2020, 10, 636.	0.8	7
14	Potential-Induced Adsorption and Structuring of Water at the Pt(111) Electrode Surface in Contact with an Ionic Liquid. Journal of Physical Chemistry Letters, 2020, 11, 7116-7121.	2.1	20
15	Unexpected monolayer-to-bilayer transition of arylazopyrazole surfactants facilitates superior photo-control of fluid interfaces and colloids. Chemical Science, 2020, 11, 2085-2092.	3.7	23
16	Spiropyran Sulfonates for Photo- and pH-Responsive Airâ€“Water Interfaces and Aqueous Foam. Langmuir, 2020, 36, 6871-6879.	1.6	36
17	Role of H 2 O for CO 2 Reduction Reactions at Platinum/Electrolyte Interfaces in Imidazolium Roomâ€Temperature Ionic Liquids. ChemElectroChem, 2020, 7, 1765-1774.	1.7	14
18	Specific Ion Effects of Dodecyl Sulfate Surfactants with Alkali Ions at the Airâ€“Water Interface. Molecules, 2019, 24, 2911.	1.7	22

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19	Specific Ion Effects of Trivalent Cations on the Structure and Charging State of Î²-Lactoglobulin Adsorption Layers. Langmuir, 2019, 35, 11299-11307.	1.6	17
20	Mechanistic Insights on CO₂ Reduction Reactions at Platinum/[BMIM][BF₄] Interfaces from In Operando Spectroscopy. ACS Catalysis, 2019, 9, 6284-6292.	5.5	43
21	Aqueous Mixtures of Room-Temperature Ionic Liquids: Entropy-Driven Accumulation of Water Molecules at Interfaces. Journal of Physical Chemistry C, 2019, 123, 13795-13803.	1.5	29
22	Hydroxypropyl cellulose as a green polymer for thermo-responsive aqueous foams. Soft Matter, 2019, 15, 2876-2883.	1.2	52
23	C_nTAB/polystyrene sulfonate mixtures at airâ€“water interfaces: effects of alkyl chain length on surface activity and charging state. Physical Chemistry Chemical Physics, 2019, 21, 7847-7856.	1.3	14
24	Quantifying Double-Layer Potentials at Liquidâ€“Gas Interfaces from Vibrational Sum-Frequency Generation. Journal of Physical Chemistry C, 2019, 123, 1279-1286.	1.5	46
25	Impact of formulation pH on physicochemical protein characteristics at the liquid-air interface. International Journal of Pharmaceutics, 2018, 541, 234-245.	2.6	16
26	The surface chemistry of sapphire-c: A literature review and a study on various factors influencing its IEP. Advances in Colloid and Interface Science, 2018, 251, 1-25.	7.0	25
27	Smart Airâ€“Water Interfaces with Arylazopyrazole Surfactants and Their Role in Photoresponsive Aqueous Foam. Langmuir, 2018, 34, 6028-6035.	1.6	52
28	On the complex role of ammonia in the electroless deposition of curved silver patches on silica nanospheres. CrystEngComm, 2018, 20, 6214-6224.	1.3	4
29	Role of Citrate and NaBr at the Surface of Colloidal Gold Nanoparticles during Functionalization. Journal of Physical Chemistry C, 2018, 122, 27383-27391.	1.5	14
30	Charge-Controlled Surface Properties of Native and Fluorophore-Labeled Bovine Serum Albumin at the Airâ€“Water Interface. Journal of Physical Chemistry B, 2018, 122, 10377-10383.	1.2	16
31	Effects of Ca²⁺ Ion Condensation on the Molecular Structure of Polystyrene Sulfonate at Airâ€“Water Interfaces. Langmuir, 2018, 34, 11714-11722.	1.6	17
32	Molecular structure of octadecylphosphonic acids during their self-assembly on Î±-Al₂O₃(0001). Physical Chemistry Chemical Physics, 2018, 20, 19382-19389.	1.3	12
33	Vibrational sum-frequency generation study of the CO2 electrochemical reduction at Pt/EMIM-BF4 solid/liquid interfaces. Journal of Electroanalytical Chemistry, 2017, 800, 144-150.	1.9	36
34	Functionalization of steel surfaces with organic acids: Influence on wetting and corrosion behavior. Applied Surface Science, 2017, 404, 326-333.	3.1	42
35	In situspectroscopy of ligand exchange reactions at the surface of colloidal gold and silver nanoparticles. Journal of Physics Condensed Matter, 2017, 29, 133002.	0.7	12
36	Nanocylindrical confinement imparts highest structural order in molecular self-assembly of organophosphonates on aluminum oxide. Nanoscale, 2017, 9, 6291-6295.	2.8	13

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37	Structure of Polystyrenesulfonate/Surfactant Mixtures at Airâ€“Water Interfaces and Their Role as Building Blocks for Macroscopic Foam. Langmuir, 2017, 33, 3499-3508.	1.6	37
38	Ion Pairing and Adsorption of Azo Dye/C₁₆TAB Surfactants at the Airâ€“Water Interface. Journal of Physical Chemistry C, 2017, 121, 27992-28000.	1.5	27
39	Lubrication of Individual Microcontacts by a Self-Assembled Alkyl Phosphonic Acid Monolayer on Î±-Al₂O₃(0001). Langmuir, 2016, 32, 8298-8306.	1.6	17
40	Molekulares VerstÃndnis fluider GrenzflÃchen am Beispiel von ProteinschÃumen. Chemie-Ingenieur-Technik, 2016, 88, 1298-1298.	0.4	0
41	Interaction between Polymeric Additives and Secondary Fluids in Capillary Suspensions. Langmuir, 2016, 32, 1440-1449.	1.6	8
42	Specific effects of Ca²⁺ions and molecular structure of Î²-lactoglobulin interfacial layers that drive macroscopic foam stability. Soft Matter, 2016, 12, 5995-6004.	1.2	30
43	Fast and Slow Ligand Exchange at the Surface of Colloidal Gold Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 1673-1682.	1.5	55
44	Carboxylate Ion Pairing with Alkali-Metal Ions for Î²-Lactoglobulin and Its Role on Aggregation and Interfacial Adsorption. Journal of Physical Chemistry B, 2015, 119, 5505-5517.	1.2	32
45	Self-Assembled Monolayers Get Their Final Finish via a Quasi-Langmuirâ€“Blodgett Transfer. Langmuir, 2015, 31, 4678-4685.	1.6	16
46	Shedding Light on the Growth of Gold Nanoshells. ACS Nano, 2014, 8, 3088-3096.	7.3	42
47	Surface Charging and Interfacial Water Structure of Amphoteric Colloidal Particles. Journal of Physical Chemistry C, 2014, 118, 10033-10042.	1.5	29
48	Indentation and Self-Healing Mechanisms of a Self-Assembled Monolayerâ€”A Combined Experimental and Modeling Study. Journal of the American Chemical Society, 2014, 136, 10718-10727.	6.6	37
49	Mixed Layers of Î²-Lactoglobulin and SDS at Airâ€“Water Interfaces with Tunable Intermolecular Interactions. Journal of Physical Chemistry B, 2014, 118, 4098-4105.	1.2	26
50	Surface spectroscopy of Pt(1 1 1) single-crystal electrolyte interfaces with broadband sum-frequency generation. Journal of Electroanalytical Chemistry, 2014, 716, 136-144.	1.9	8
51	Vibrational sum-frequency generation at protein modified airâ€“water interfaces: Effects of molecular structure and surface charging. Current Opinion in Colloid and Interface Science, 2014, 19, 207-215.	3.4	54
52	pH Effects on the Molecular Structure of Î²-Lactoglobulin Modified Airâ€“Water Interfaces and Its Impact on Foam Rheology. Langmuir, 2013, 29, 11646-11655.	1.6	136
53	Electrocatalysis: A direct alcohol fuel cell and surface science perspective. Catalysis Today, 2013, 202, 197-209.	2.2	130
54	The microelectronic wireless nitrate sensor network for environmental water monitoring. Journal of Environmental Monitoring, 2012, 14, 3068.	2.1	34

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55	Impact of Oxygen Plasma Treatment on the Device Performance of Zinc Oxide Nanoparticle-Based Thin-Film Transistors. ACS Applied Materials & Interfaces, 2012, 4, 1693-1696.	4.0	64
56	In Situ Spectroscopic Examination of a Low Overpotential Pathway for Carbon Dioxide Conversion to Carbon Monoxide. Journal of Physical Chemistry C, 2012, 116, 15307-15312.	1.5	230
57	Protein Adsorption at the Electrified Airâ€“Water Interface: Implications on Foam Stability. Langmuir, 2012, 28, 7780-7787.	1.6	65
58	Study of Ethanol Electrooxidation in Alkaline Electrolytes with Isotope Labels and Sum-Frequency Generation. Journal of Physical Chemistry Letters, 2011, 2, 2236-2240.	2.1	51
59	Tuning the Molecular Order of C₆₀ Functionalized Phosphonic Acid Monolayers. Langmuir, 2011, 27, 15016-15023.	1.6	55
60	Reaction pathways of ethanol electrooxidation on polycrystalline platinum catalysts in acidic electrolytes. Journal of Catalysis, 2011, 278, 181-188.	3.1	132
61	Pt(111) thin-layer electrodes on Î±-Al2O3(0001): Morphology and atomic structure. Surface Science, 2011, 605, 1082-1089.	0.8	15
62	Sum-frequency generation of acetate adsorption on Au and Pt surfaces: Molecular structure effects. Journal of Chemical Physics, 2010, 133, 234702.	1.2	35
63	Real-Time Investigations of Pt(111) Surface Transformations in Sulfuric Acid Solutions. Journal of the American Chemical Society, 2010, 132, 14036-14038.	6.6	51
64	Atomic transport in metastable compounds: Case study of self-diffusion in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Si</mml:mtext><mml:mo>â^’</mml:mo><mml:mtext>C</mml:mtext><mml:mo>â^’</mml:m using neutron reflectometry. Physical Review B, 2009, 80, .	1.1	14
65	One-dimensional defects in iodine adlayers on Pt(100). Surface Science, 2009, 603, 3361-3366.	0.8	1
66	Superstructures and Orderâ^’Disorder Transition of Sulfate Adlayers on Pt(111) in Sulfuric Acid Solution. Langmuir, 2009, 25, 11112-11120.	1.6	61
67	Potentials and limits of mid-infrared laser spectroscopy for the detection of explosives. Applied Physics B: Lasers and Optics, 2008, 92, 327-333.	1.1	77
68	Molecular Structure of a Mineral/Water Interface:â€‰ Effects of Surface NanoRoughness of Î±-Al₂O₃ (0001). Journal of Physical Chemistry C, 2008, 112, 1751-1754.	1.5	61
69	Nonlinear Optical Spectroscopy of Suboxides at Oxidized Si(111) Interfaces. Physical Review Letters, 2004, 93, 097402.	2.9	24