

Tobias Weidner

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147
papers

3,606
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36
h-index

51
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161
ext. papers

4,046
ext. citations

6
avg, IF

5.3
L-index

#	Paper	IF	Citations
147	Ice-nucleating bacteria control the order and dynamics of interfacial water. <i>Science Advances</i> , 2016 , 2, e1501630	14.3	128
146	Sum frequency generation and solid-state NMR study of the structure, orientation, and dynamics of polystyrene-adsorbed peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13288-93	11.5	126
145	Probing the orientation and conformation of alpha-helix and beta-strand model peptides on self-assembled monolayers using sum frequency generation and NEXAFS spectroscopy. <i>Langmuir</i> , 2010 , 26, 3433-40	4	110
144	Amine Terminated SAMs: Investigating Why Oxygen is Present in these Films. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009 , 172, 2-8	1.7	86
143	Structure and order of phosphonic acid-based self-assembled monolayers on Si(100). <i>Langmuir</i> , 2010 , 26, 14747-54	4	84
142	Probing the orientation of surface-immobilized protein G B1 using ToF-SIMS, sum frequency generation, and NEXAFS spectroscopy. <i>Langmuir</i> , 2010 , 26, 16434-41	4	80
141	NHC-Based Self-Assembled Monolayers on Solid Gold Substrates. <i>Australian Journal of Chemistry</i> , 2011 , 64, 1177-1179	1.2	78
140	IM30 triggers membrane fusion in cyanobacteria and chloroplasts. <i>Nature Communications</i> , 2015 , 6, 7018	7.4	77
139	SFG analysis of surface bound proteins: a route towards structure determination. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12516-24	3.6	67
138	Simultaneous Modification of Bottom-Contact Electrode and Dielectric Surfaces for Organic Thin-Film Transistors Through Single-Component Spin-Cast Monolayers. <i>Advanced Functional Materials</i> , 2011 , 21, 1476-1488	15.6	67
137	Self-assembly of a pyridine-terminated thiol monolayer on Au(111). <i>Langmuir</i> , 2009 , 25, 959-67	4	66
136	Structure and Dynamics of Interfacial Peptides and Proteins from Vibrational Sum-Frequency Generation Spectroscopy. <i>Chemical Reviews</i> , 2020 , 120, 3420-3465	68.1	61
135	Correlation between the molecular structure and photoresponse in aliphatic self-assembled monolayers with azobenzene tailgroups. <i>Langmuir</i> , 2008 , 24, 11691-700	4	61
134	Effects of self-assembled monolayer structural order, surface homogeneity and surface energy on pentacene morphology and thin film transistor device performance. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 101-113	7.1	59
133	Spin-cast and patterned organophosphonate self-assembled monolayer dielectrics on metal-oxide-activated Si. <i>Advanced Materials</i> , 2011 , 23, 1899-902	24	58
132	Physical and Electronic Structure Effects of Embedded Dipoles in Self-Assembled Monolayers: Characterization of Mid-Chain Ester Functionalized Alkanethiols on Au{111}. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10842-10854	3.8	55
131	The role of intact oleosin for stabilization and function of oleosomes. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 13872-83	3.4	54

130	Novel tripod ligands for prickly self-assembled monolayers. <i>Dalton Transactions</i> , 2006 , 2767-77	4.3	54
129	The interaction of 1,1Sdiisocyanoferrrocene with gold: formation of monolayers and supramolecular polymerization of an aurophilic ferrocenophane. <i>Journal of the American Chemical Society</i> , 2005 , 127, 1102-3	16.4	52
128	Molecular self-assembly at bare semiconductor surfaces: cooperative substrate-molecule effects in octadecanethiolate monolayer assemblies on GaAs(111), (110), and (100). <i>ACS Nano</i> , 2010 , 4, 3447-65	16.7	51
127	Balance of structure-building forces in selenium-based self-assembled monolayers. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2232-3	16.4	51
126	Diatom mimics: directing the formation of biosilica nanoparticles by controlled folding of lysine-leucine peptides. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15134-7	16.4	50
125	Amide or amine: determining the origin of the 3300 cm ⁻¹ NH mode in protein SFG spectra using 15N isotope labels. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 15423-6	3.4	49
124	Probing the orientation of electrostatically immobilized Protein G B1 by time-of-flight secondary ion spectrometry, sum frequency generation, and near-edge X-ray adsorption fine structure spectroscopy. <i>Langmuir</i> , 2012 , 28, 2107-12	4	48
123	Kinetically Controlled Sequential Growth of Surface-Grafted Chiral Supramolecular Copolymers. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7242-6	16.4	46
122	Tripodal Binding Units for Self-Assembled Monolayers on Gold: A Comparison of Thiol and Thioether Headgroups. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19609-19617	3.8	46
121	The interaction with gold suppresses fiber-like conformations of the amyloid α (16-22) peptide. <i>Nanoscale</i> , 2016 , 8, 8737-48	7.7	45
120	Assembly and structure of alpha-helical peptide films on hydrophobic fluorocarbon surfaces. <i>Biointerphases</i> , 2010 , 5, 9-16	1.8	41
119	Effect of the Bending Potential on Molecular Arrangement in Alkaneselenolate Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12495-12506	3.8	41
118	Reversible activation of a cell-penetrating peptide in a membrane environment. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12199-202	16.4	39
117	A solid-state deuterium NMR and sum-frequency generation study of the side-chain dynamics of peptides adsorbed onto surfaces. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14148-9	16.4	39
116	Calcium-Induced Molecular Rearrangement of Peptide Folds Enables Biomineralization of Vaterite Calcium Carbonate. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2793-2796	16.4	38
115	Self-assembled monolayers of a bis(pyrazol-1-yl)pyridine-substituted thiol on Au(111). <i>Langmuir</i> , 2008 , 24, 12883-91	4	38
114	Self-Assembled Monolayers of Aromatic Tellurides on (111)-Oriented Gold and Silver Substrates. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11627-11635	3.8	37
113	Sodium dodecyl sulfate adsorption onto positively charged surfaces: monolayer formation with opposing headgroup orientations. <i>Langmuir</i> , 2013 , 29, 12710-9	4	36

112	Direct observation of phenylalanine orientations in statherin bound to hydroxyapatite surfaces. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8750-3	16.4	36
111	Mono-fluorinated alkyne-derived SAMs on oxide-free Si(111) surfaces: preparation, characterization and tuning of the Si workfunction. <i>Langmuir</i> , 2013 , 29, 570-80	4	34
110	Energy Level Pinning in Self-Assembled Alkanethiol Monolayers. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4575-4583	3.8	34
109	Dipodal ferrocene-based adsorbate molecules for self-assembled monolayers on gold. <i>Chemistry - A European Journal</i> , 2008 , 14, 4346-60	4.8	34
108	Hydration of sulphobetaine and tetra(ethylene glycol)-terminated self-assembled monolayers studied by sum frequency generation vibrational spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 11550-6	3.4	33
107	Type I Collagen from Jellyfish for Biomaterial Applications. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 2115-2125	5.5	32
106	Zwitterionic dithiocarboxylates derived from N-heterocyclic carbenes: coordination to gold surfaces. <i>Dalton Transactions</i> , 2012 , 41, 2986-94	4.3	32
105	Covalently attached organic monolayers onto silicon carbide from 1-alkynes: molecular structure and tribological properties. <i>Langmuir</i> , 2013 , 29, 4019-31	4	31
104	Hexadecadienyl monolayers on hydrogen-terminated Si(111): faster monolayer formation and improved surface coverage using the enyne moiety. <i>Langmuir</i> , 2012 , 28, 6577-88	4	31
103	On the importance of purity for the formation of self-assembled monolayers from thiocyanates. <i>Langmuir</i> , 2008 , 24, 6609-15	4	31
102	Engineering Proteins at Interfaces: From Complementary Characterization to Material Surfaces with Designed Functions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12626-12648	16.4	30
101	Characterization of poly(sodium styrene sulfonate) thin films grafted from functionalized titanium surfaces. <i>Langmuir</i> , 2011 , 27, 13104-12	4	30
100	The Structure of the Diatom Silaffin Peptide R5 within Freestanding Two-Dimensional Biosilica Sheets. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8277-8280	16.4	29
99	Biomimetic Growth of Ultrathin Silica Sheets Using Artificial Amphiphilic Peptides. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500282	4.6	29
98	Spin cast self-assembled monolayer field effect transistors. <i>Organic Electronics</i> , 2012 , 13, 464-468	3.5	28
97	A new approach for the fabrication of strongly heterogeneous mixed self-assembled monolayers. <i>ChemPhysChem</i> , 2007 , 8, 819-22	3.2	28
96	Repelling and ordering: the influence of poly(ethylene glycol) on protein adsorption. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28182-28188	3.6	27
95	Effect of the phenyl ring orientation in the polystyrene buffer layer on the performance of pentacene thin-film transistors. <i>Organic Electronics</i> , 2010 , 11, 1066-1073	3.5	27

94	Adamantane-Based Tripodal Thioether Ligands Functionalized with a Redox-Active Ferrocenyl Moiety for Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14975-14982	3.8	25
93	Multi-technique Characterization of Adsorbed Peptide and Protein Orientation: LK3 and Protein G B1. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C5D1	1.3	25
92	Precursor-controlled and template-free synthesis of nitrogen-doped carbon nanoparticles for supercapacitors. <i>RSC Advances</i> , 2015 , 5, 50063-50069	3.7	24
91	Identifying the selectivity of antimicrobial peptides to cell membranes by sum frequency generation spectroscopy. <i>Biointerphases</i> , 2017 , 12, 02D406	1.8	23
90	Determination of Absolute Orientation of Protein α -Helices at Interfaces Using Phase-Resolved Sum Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3101-3105	6.4	23
89	SAP(E) - A cell-penetrating polyproline helix at lipid interfaces. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 2028-2034	3.8	23
88	Formation of lysozyme oligomers at model cell membranes monitored with sum frequency generation spectroscopy. <i>Langmuir</i> , 2014 , 30, 7736-44	4	23
87	Ultrafast Reorientational Dynamics of Leucine at the Air-Water Interface. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5226-9	16.4	23
86	Predicting the orientation of protein G B1 on hydrophobic surfaces using Monte Carlo simulations. <i>Biointerphases</i> , 2016 , 12, 02D401	1.8	22
85	Low-voltage high-performance organic thin film transistors with a thermally annealed polystyrene/hafnium oxide dielectric. <i>Applied Physics Letters</i> , 2009 , 95, 243302	3.4	22
84	Probing the orientation of electrostatically immobilized cytochrome C by time of flight secondary ion mass spectrometry and sum frequency generation spectroscopy. <i>Biointerphases</i> , 2013 , 8, 18	1.8	21
83	Sticky water surfaces: helix-coil transitions suppressed in a cell-penetrating peptide at the air-water interface. <i>Journal of Chemical Physics</i> , 2014 , 141, 22D517	3.9	21
82	Modification of Alkaneselenolate Monolayers by Low-Energy Electrons. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1191-1198	3.8	21
81	UV-Promoted Exchange Reaction as a Tool for Gradual Tuning the Composition of Binary Self-Assembled Monolayers and Chemical Lithography. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 12002-12010	3.8	21
80	Direct Characterization of Polymer Encapsulated CdSe/CdS/ZnS Quantum Dots. <i>Surface Science</i> , 2016 , 648, 339-344	1.8	20
79	Phthalocyaninato complexes with peripheral alkylthio chains: disk-like adsorbate species for the vertical anchoring of ligands on gold surfaces. <i>Inorganica Chimica Acta</i> , 2011 , 374, 302-312	2.7	19
78	Multiscale Effects of Interfacial Polymer Confinement in Silica Nanocomposites. <i>Macromolecules</i> , 2015 , 48, 7929-7937	5.5	18
77	Self-Assembled Monolayers of Single-Molecule Magnets [Tb{Pc(SR)} ₂] on Gold. <i>ChemPlusChem</i> , 2012 , 77, 889-897	2.8	18

76	In-Silico Evidence for a Two Receptor Based Strategy of SARS-CoV-2. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 690655	5.6	18
75	Evidence of a molecular boundary lubricant at snakeskin surfaces. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20150817	4.1	17
74	Bottom-contact small-molecule n-type organic field effect transistors achieved via simultaneous modification of electrode and dielectric surfaces. <i>Organic Electronics</i> , 2012 , 13, 3226-3233	3.5	16
73	Modification of biphenylselenolate monolayers by low-energy electrons. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 1519-1528	1.3	16
72	Candle soot-based super-amphiphobic coatings resist protein adsorption. <i>Biointerphases</i> , 2016 , 11, 031008	10.8	16
71	Biomimetic vaterite formation at surfaces structurally templated by oligo(glutamic acid) peptides. <i>Chemical Communications</i> , 2015 , 51, 15902-5	5.8	14
70	How Universal Is the Wetting Aging in 2D Materials. <i>Nano Letters</i> , 2020 , 20, 5670-5677	11.5	14
69	The structure of insulin at the air/water interface: monomers or dimers?. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 26722-4	3.6	14
68	Probing Albumin Adsorption onto Calcium Phosphates by XPS and ToF-SIMS. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 4D113	1.3	14
67	The surface chemistry of iron oxide nanocrystals: surface reduction of Fe ₂ O ₃ to Fe ₃ O ₄ by redox-active catechol surface ligands. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 326-333	7.1	14
66	Ice-binding site of surface-bound type III antifreeze protein partially decoupled from water. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 26926-26933	3.6	14
65	Nitrated Fatty Acids Modulate the Physical Properties of Model Membranes and the Structure of Transmembrane Proteins. <i>Chemistry - A European Journal</i> , 2017 , 23, 9690-9697	4.8	13
64	A trough for improved SFG spectroscopy of lipid monolayers. <i>Review of Scientific Instruments</i> , 2017 , 88, 053106	1.7	13
63	Reversible activation of pH-sensitive cell penetrating peptides attached to gold surfaces. <i>Chemical Communications</i> , 2015 , 51, 273-275	5.8	13
62	Lasalocid Acid Antibiotic at a Membrane Surface Probed by Sum Frequency Generation Spectroscopy. <i>Langmuir</i> , 2020 , 36, 3184-3192	4	13
61	Kinetisch kontrolliertes, sequenzielles Wachstum von chiralen supramolekularen Copolymeren auf Oberflächen. <i>Angewandte Chemie</i> , 2016 , 128, 7358-7362	3.6	13
60	Multiplexed orientation and structure analysis by imaging near-edge X-ray absorption fine structure (MOSAIX) for combinatorial surface science. <i>Analytical Chemistry</i> , 2013 , 85, 4307-10	7.8	13
59	Orientation and Conformation of Proteins at the Air-Water Interface Determined from Integrative Molecular Dynamics Simulations and Sum Frequency Generation Spectroscopy. <i>Langmuir</i> , 2020 , 36, 11855-11865	4.13	13

58	Peptide-Controlled Assembly of Macroscopic Calcium Oxalate Nanosheets. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2170-2174	6.4	12
57	Bovine and human insulin adsorption at lipid monolayers: a comparison. <i>Frontiers in Physics</i> , 2015 , 3,	3.9	12
56	Solid-State Densification of Spun-Cast Self-Assembled Monolayers for Use in Ultra-Thin Hybrid Dielectrics. <i>Applied Surface Science</i> , 2012 , 261, 908-908	6.7	12
55	LK peptide side chain dynamics at interfaces are independent of secondary structure. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28507-28511	3.6	11
54	Self-assembled monolayers of ruthenocene-substituted biphenyl ethynyl thiols on gold. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 621, 159-170	4.1	11
53	Self-assembled nanostructures of redox-functionalized terpyridines monitored by optical second-harmonic generation. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 77, 31-35	1.9	11
52	Otofelin C2F Domain-Induced Changes in Membrane Structure Observed by Sum Frequency Generation. <i>Biophysical Journal</i> , 2019 , 117, 1820-1830	2.9	10
51	Dithienylcyclopentene-functionalised subphthalocyaninatoboron complexes: photochromism, luminescence modulation and formation of self-assembled monolayers on gold. <i>Dalton Transactions</i> , 2012 , 41, 1553-61	4.3	10
50	COOH-terminated SAMs on gold fabricated from an azobenzene derivative with a 1,2-dithiolane headgroup. <i>Applied Surface Science</i> , 2010 , 256, 1832-1836	6.7	10
49	Acetylation dictates the morphology of nanophase biosilica precipitated by a 14-amino acid leucine-lysine peptide. <i>Journal of Peptide Science</i> , 2017 , 23, 141-147	2.1	9
48	Gold nanoparticle growth on self-assembled monolayers of ferrocenyl-substituted terpyridine on graphite. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 94, 11-17	2.6	9
47	Tutorials in vibrational sum frequency generation spectroscopy. I. The foundations.. <i>Biointerphases</i> , 2022 , 17, 011201	1.8	9
46	Solvothermal Synthesis of Molybdenum Tungsten Oxides and Their Application for Photoelectrochemical Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12641-12649	8.3	9
45	Effect of an ionic liquid/air Interface on the structure and dynamics of amphiphilic peptides. <i>Journal of Molecular Liquids</i> , 2017 , 236, 404-413	6	8
44	High-throughput analysis of molecular orientation on surfaces by NEXAFS imaging of curved sample arrays. <i>ACS Combinatorial Science</i> , 2014 , 16, 449-53	3.9	8
43	Molecular suction pads: self-assembled monolayers of subphthalocyaninatoboron complexes on gold. <i>ChemPhysChem</i> , 2013 , 14, 1155-60	3.2	8
42	Ice-nucleating proteins are activated by low temperatures to control the structure of interfacial water. <i>Nature Communications</i> , 2021 , 12, 1183	17.4	8
41	Surface chemistry of the frog sticky-tongue mechanism. <i>Biointerphases</i> , 2018 , 13, 06E408	1.8	8

40	Tutorials in vibrational sum frequency generation spectroscopy. II. Designing a broadband vibrational sum frequency generation spectrometer.. <i>Biointerphases</i> , 2022 , 17, 011202	1.8	7
39	Differential surface activation of the A1 domain of von Willebrand factor. <i>Biointerphases</i> , 2016 , 11, 029803		7
38	Structure of von Willebrand factor A1 on polystyrene determined from experimental and calculated sum frequency generation spectra. <i>Biointerphases</i> , 2018 , 13, 06E411	1.8	7
37	Effect of Internal Heteroatoms on Level Alignment at Metal/Molecular Monolayer/Si Interfaces. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3312-3325	3.8	6
36	Enhanced Performance of Self-Assembled Monolayer Field-Effect Transistors with Top-Contact Geometry through Molecular Tailoring, Heated Assembly, and Thermal Annealing. <i>Advanced Functional Materials</i> , 2015 , 25, 5376-5383	15.6	6
35	Direct Evidence That Mutations within Dysferlin's C2A Domain Inhibit Lipid Clustering. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 148-157	3.4	6
34	Developments and Ongoing Challenges for Analysis of Surface-Bound Proteins. <i>Annual Review of Analytical Chemistry</i> , 2021 , 14, 389-412	12.5	6
33	Full membrane spanning self-assembled monolayers as model systems for UHV-based studies of cell-penetrating peptides. <i>Biointerphases</i> , 2015 , 10, 019009	1.8	5
32	Interaction of Amyloid- β (1-42) Peptide and Its Aggregates with Lipid/Water Interfaces Probed by Vibrational Sum-Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 11208-11218	3.4	5
31	Intrinsically Disordered Osteopontin Fragment Orders During Interfacial Calcium Oxalate Mineralization. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18577-18581	16.4	4
30	Windowless detection geometry for sum frequency scattering spectroscopy in the C-D and amide I regions. <i>Biointerphases</i> , 2021 , 16, 011201	1.8	4
29	Engineering von Proteinen an Oberflächen: Von komplementärer Charakterisierung zu Materialoberflächen mit maßgeschneiderten Funktionen. <i>Angewandte Chemie</i> , 2018 , 130, 12806-12830	3.6	3
28	NEXAFS imaging to characterize the physio-chemical composition of cuticle from African Flower Scarab <i>Eudicella gralli</i> . <i>Nature Communications</i> , 2019 , 10, 4758	17.4	3
27	Functionalization of nanocrystalline diamond films with phthalocyanines. <i>Applied Surface Science</i> , 2016 , 379, 415-423	6.7	3
26	Magnetic Field Landscapes Guiding the Chemisorption of Diamagnetic Molecules. <i>Langmuir</i> , 2016 , 32, 10491-10496	4	3
25	Interpretation of Interfacial Protein Spectra with Enhanced Molecular Simulation Ensembles. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 698-707	6.4	3
24	Model Asphaltene Adsorbed onto Methyl- and COOH-Terminated SAMs on Gold. <i>Langmuir</i> , 2021 , 37, 9785-9792	4	3
23	A liquid surface height controller for surface spectroscopy. <i>Review of Scientific Instruments</i> , 2021 , 92, 094104	1.7	3

22	Both Poly(ethylene glycol) and Poly(methyl ethylene phosphate) Guide Oriented Adsorption of Specific Proteins. <i>Langmuir</i> , 2019 , 35, 14092-14097	4	2
21	The Interaction of 1,1?-Diphosphaferrocenes with Gold: Molecular Coordination Chemistry and Adsorption on Solid Substrates. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 351-359	2.3	2
20	The Ice Nucleating Protein InaZ is Activated by Low Temperature		2
19	Surface chemistry of the ladybird beetle adhesive foot fluid across various substrates. <i>Biointerphases</i> , 2021 , 16, 031004	1.8	2
18	Insects use lubricants to minimize friction and wear in leg joints. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20211065	4.4	2
17	Structure of Keratins in Adhesive Gecko Setae Determined by Near-Edge X-ray Absorption Fine Structure Spectromicroscopy.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2193-2196	6.4	2
16	Thiolated Lysine-Leucine Peptides Self-Assemble into Biosilica Nucleation Pits on Gold Surfaces. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700399	4.6	1
15	Freezing from the inside: Ice nucleation in Escherichia coli and Escherichia coli ghosts by inner membrane bound ice nucleation protein InaZ. <i>Biointerphases</i> , 2020 , 15, 031003	1.8	1
14	Role of Surface Chemistry in the Superhydrophobicity of the Springtail (Insecta:Collembola). <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12294-12304	9.5	1
13	Die Struktur des Silaffin-Peptids R5 aus Diatomeen in freistehenden zweidimensionalen Biosilikatwänden. <i>Angewandte Chemie</i> , 2017 , 129, 8390-8394	3.6	1
12	Characterizing the Structure of Surface-Immobilized Proteins: A Surface Analysis Approach. <i>ACS Symposium Series</i> , 2012 , 761-779	0.4	1
11	Membrane Structure of Aquaporin Observed with Combined Experimental and Theoretical Sum Frequency Generation Spectroscopy. <i>Langmuir</i> , 2021 , 37, 13452-13459	4	1
10	The primary photo-dissociation dynamics of lactate in aqueous solution: decarboxylation prevents dehydroxylation. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 4555-4568	3.6	1
9	Assembly of iron oxide nanosheets at the air-water interface by leucine-histidine peptides.. <i>RSC Advances</i> , 2021 , 11, 27965-27968	3.7	1
8	Preface: In Focus Issue on Protein Structures at Biointerfaces. <i>Biointerphases</i> , 2017 , 12, 02D101	1.8	0
7	Direct Evidence for Aligned Binding of Cellulase Enzymes to Cellulose Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10684-10688	6.4	0
6	Synthetic Artificial Apoptosis-Inducing Receptor for On-Demand Deactivation of Engineered Cells. <i>Advanced Science</i> , 2021 , 8, 2004432	13.6	0
5	The primary photolysis dynamics of oxalate in aqueous solution: decarboxylation. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10040-10050	3.6	0

- 4 Backbone Structure of Diatom Silaffin Peptide R5 in Biosilica Determined by Combining Solid-State NMR with Theoretical Sum-Frequency Generation Spectra. *Journal of Physical Chemistry Letters*, **2021**, 12, 9657-9661 6.4 ○
- 3 The Diatom Peptide R5 Fabricates Two-Dimensional Titanium Dioxide Nanosheets. *Journal of Physical Chemistry Letters*, 5025-5029 6.4 ○
- 2 Intrinsisch ungeordnete Osteopontin-Fragmente ordnen sich während der interfazialen Calciumoxalat-Mineralisierung. *Angewandte Chemie*, **2021**, 133, 18725-18729 3.6
- 1 Methane as a reddish coating agent. *Icarus*, **2022**, 115023 3.8