

Florian Maier

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2263069/florian-maier-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

4,711
citations

30
h-index

68
g-index

94
ext. papers

5,132
ext. citations

6.2
avg, IF

5.18
L-index

#	Paper	IF	Citations
87	The Effect of Ambient Conditions on the Potential Screening at Ionic Liquid Electrode Interfaces. <i>Journal of Ionic Liquids</i> , 2022 , 2, 100019		
86	Enrichment effects of ionic liquid mixtures at polarized electrode interfaces monitored by potential screening. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10756-10762	3.6	3
85	B/N-doped carbon sheets from a new ionic liquid with excellent sorption properties for methylene blue. <i>Journal of Ionic Liquids</i> , 2021 , 1, 100004		0
84	Time- and Temperature-Dependent Growth Behavior of Ionic Liquids on Au(111) Studied by Atomic Force Microscopy in Ultrahigh Vacuum. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 20439-20449	3.8	1
83	Adsorption, Wetting, Growth, and Thermal Stability of the Protic Ionic Liquid Diethylmethylammonium Trifluoromethanesulfonate on Ag(111) and Au(111). <i>Langmuir</i> , 2021 , 37, 11552-11560	4.1	0
82	n-Butane, iso-Butane and 1-Butene Adsorption on Imidazolium-Based Ionic Liquids Studied with Molecular Beam Techniques. <i>Chemistry - A European Journal</i> , 2021 , 27, 17059-17065	4.8	
81	Die dynamische Wechselwirkung von n-Butan mit Imidazolium-basierten ionischen Flüssigkeiten. <i>Angewandte Chemie</i> , 2020 , 132, 14536-14541	3.6	1
80	On the Dynamic Interaction of n-Butane with Imidazolium-Based Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14429-14433	16.4	5
79	Pronounced surface enrichment of fluorinated ionic liquids in binary mixtures with methoxy-functionalized ionic liquids. <i>Journal of Molecular Liquids</i> , 2020 , 305, 112783	6	4
78	Atomic Force and Scanning Tunneling Microscopy of Ordered Ionic Liquid Wetting Layers from 110 K up to Room Temperature. <i>ACS Nano</i> , 2020 , 14, 9000-9010	16.7	10
77	On the adsorption of n-butane on alkyl imidazolium ionic liquids with different anions using a new molecular beam setup. <i>Journal of Chemical Physics</i> , 2020 , 153, 214706	3.9	1
76	Growth of Multilayers of Ionic Liquids on Au(111) Investigated by Atomic Force Microscopy in Ultrahigh Vacuum. <i>Langmuir</i> , 2020 , 36, 13670-13681	4	5
75	Ultrathin ionic liquid films on metal surfaces: adsorption, growth, stability and exchange phenomena. <i>Advances in Physics: X</i> , 2020 , 5, 1761266	5.1	14
74	Surface Tension and Viscosity of Binary Mixtures of the Fluorinated and Non-fluorinated Ionic Liquids [PFBMIm][PF6] and [C4C1Im][PF6] by the Pendant Drop Method and Surface Light Scattering. <i>International Journal of Thermophysics</i> , 2020 , 41, 1	2.1	6
73	Temperature-Dependent Surface Enrichment Effects in Binary Mixtures of Fluorinated and Non-Fluorinated Ionic Liquids. <i>Chemistry - A European Journal</i> , 2020 , 26, 1117-1126	4.8	7
72	Few layer 2D pnictogens catalyze the alkylation of soft nucleophiles with esters. <i>Nature Communications</i> , 2019 , 10, 509	17.4	45
71	Potential Screening at Electrode/Ionic Liquid Interfaces from In Situ X-ray Photoelectron Spectroscopy. <i>ChemistryOpen</i> , 2019 , 8, 1365-1368	2.3	5

70	Stability and Exchange Processes in Ionic Liquid/Porphyrin Composite Films on Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29708-29721	3.8	4
69	Cation Exchange at the Interfaces of Ultrathin Films of Fluorous Ionic Liquids on Ag(111). <i>Langmuir</i> , 2019 , 35, 398-405	4	15
68	Surface behavior of low-temperature molten salt mixtures during the transition from liquid to solid. <i>Journal of Molecular Liquids</i> , 2019 , 275, 290-296	6	2
67	Reactions of a Polyhalide Ionic Liquid with Copper, Silver, and Gold. <i>ChemistryOpen</i> , 2019 , 8, 15-22	2.3	8
66	Probing the Surface Tension of Ionic Liquids Using the Langmuir Principle. <i>Langmuir</i> , 2018 , 34, 4408-4416	4	23
65	Surface Enrichment in Equimolar Mixtures of Non-Functionalized and Functionalized Imidazolium-Based Ionic Liquids. <i>ChemPhysChem</i> , 2018 , 19, 1733-1745	3.2	13
64	Time-dependent changes in the growth of ultrathin ionic liquid films on Ag(111). <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 12929-12938	3.6	18
63	Ionic liquids at interfaces: general discussion. <i>Faraday Discussions</i> , 2018 , 206, 549-586	3.6	
62	Anion Exchange at the Liquid/Solid Interface of Ultrathin Ionic Liquid Films on Ag(111). <i>ChemPhysChem</i> , 2018 , 19, 2978-2984	3.2	16
61	Surface-Induced Changes in the Thermo-chromic Transformation of an Ionic Liquid Cobalt Thiocyanate Complex. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1137-1141	6.4	12
60	Perspective: Chemical reactions in ionic liquids monitored through the gas (vacuum)/liquid interface. <i>Journal of Chemical Physics</i> , 2017 , 146, 170901	3.9	14
59	Gallium-rich Pd-Ga phases as supported liquid metal catalysts. <i>Nature Chemistry</i> , 2017 , 9, 862-867	17.6	140
58	Switching adsorption and growth behavior of ultrathin [CCIm][OTf] films on Au(111) by Pd deposition. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 25143-25150	3.6	15
57	Surface enrichment of Pt in Ga ₂ O ₃ films grown on liquid Pt/Ga alloys. <i>Surface Science</i> , 2016 , 651, 16-21	1.8	12
56	Thermally stable bis(trifluoromethylsulfonyl)imide salts and their mixtures. <i>New Journal of Chemistry</i> , 2016 , 40, 7157-7161	3.6	23
55	Dual analyzer system for surface analysis dedicated for angle-resolved photoelectron spectroscopy at liquid surfaces and interfaces. <i>Review of Scientific Instruments</i> , 2016 , 87, 045105	1.7	19
54	Strong and Tunable Spin-Orbit Coupling in a Two-Dimensional Hole Gas in Ionic-Liquid Gated Diamond Devices. <i>Nano Letters</i> , 2016 , 16, 3768-73	11.5	36
53	Photoinduced degradation of methylammonium lead triiodide perovskite semiconductors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15896-15903	13	92

52	Vacuum Surface Science Meets Heterogeneous Catalysis: Dehydrogenation of a Liquid Organic Hydrogen Carrier in the Liquid State. <i>ChemPhysChem</i> , 2015 , 16, 1873-9	3.2	13
51	Interface of Ionic Liquids and Carbon: Ultrathin [C1C1Im][Tf2N] Films on Graphite and Graphene. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 28068-28076	3.8	23
50	Carbon dioxide capture by an amine functionalized ionic liquid: fundamental differences of surface and bulk behavior. <i>Journal of the American Chemical Society</i> , 2014 , 136, 436-41	16.4	95
49	Electrospray ionization deposition of ultrathin ionic liquid films: [C8C1Im]Cl and [C8C1Im][Tf2N] on Au(111). <i>Langmuir</i> , 2014 , 30, 1063-71	4	20
48	Redox chemistry, solubility, and surface distribution of Pt(II) and Pt(IV) complexes dissolved in ionic liquids. <i>Journal of Molecular Liquids</i> , 2014 , 192, 103-113	6	16
47	Influence of substituents and functional groups on the surface composition of ionic liquids. <i>Chemistry - A European Journal</i> , 2014 , 20, 3954-65	4.8	30
46	At the ionic liquid metal interface: structure formation and temperature dependent behavior of an ionic liquid adlayer on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 17295-302	3.6	72
45	Interfacial Behavior of Thin Ionic Liquid Films on Mica. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5101-5111	3.8	52
44	Chemical and (Photo)-Catalytical Transformations in Photonic Crystal Fibers. <i>ChemCatChem</i> , 2013 , 5, 641-650	5.2	19
43	Interface Properties and Physicochemical Characterization of the Low-Temperature Molten Salt Li/K/Cs Acetate. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22939-22946	3.8	7
42	Probing a gas/liquid acid-base reaction by X-ray photoelectron spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8904-7	16.4	14
41	Temperature-dependent surface-enrichment effects of imidazolium-based ionic liquids. <i>ChemPhysChem</i> , 2013 , 14, 3726-30	3.2	13
40	Probing a Gas/Liquid Acid-Base Reaction by X-ray Photoelectron Spectroscopy. <i>Angewandte Chemie</i> , 2013 , 125, 9072-9075	3.6	1
39	Interfaces of ionic liquids and transition metal surfaces-adsorption, growth, and thermal reactions of ultrathin [C1C1Im][Tf2N] films on metallic and oxidised Ni(111) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 5153-63	3.6	76
38	Low melting Li/K/Cs acetate salt mixtures as new ionic media for catalytic applications--first physico-chemical characterization. <i>Dalton Transactions</i> , 2012 , 41, 14433-8	4.3	9
37	Monitoring of Liquid-Phase Organic Reactions by Photoelectron Spectroscopy. <i>Angewandte Chemie</i> , 2012 , 124, 2664-2667	3.6	8
36	Monitoring of liquid-phase organic reactions by photoelectron spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2610-3	16.4	26
35	Cyclic thiouronium ionic liquids: physicochemical properties and their electronic structure probed by X-ray induced photoelectron spectroscopy. <i>Chemistry - A European Journal</i> , 2012 , 18, 8288-91	4.8	14

34	Organic reactions in ionic liquids studied by in situ XPS. <i>ChemPhysChem</i> , 2012 , 13, 1725-35	3.2	41
33	Liquid/solid interface of ultrathin ionic liquid films: [C1C1Im][Tf2N] and [C8C1Im][Tf2N] on Au(111). <i>Langmuir</i> , 2011 , 27, 3662-71	4	159
32	Methylated [(arene)(1,3-cyclohexadiene)Ru(0)] complexes as low-melting MOCVD precursor complexes with a controlled follow-up chemistry of the ligands. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3014		10
31	Surface science and model catalysis with ionic liquid-modified materials. <i>Advanced Materials</i> , 2011 , 23, 2571-87	24	154
30	Methylated [(benzene)(1,3-butadiene)Ru(0)] Derivatives as Novel MOCVD Precursors with Favorable Properties. <i>Chemical Vapor Deposition</i> , 2011 , 17, 15-21		8
29	Der Kohlendioxid-Abscheidung an der Gas-flüssig-Grenzfläche auf der Spur. <i>Angewandte Chemie</i> , 2011 , 123, 10315-10316	3.6	1
28	Capture of carbon dioxide at the gas-liquid interface elucidated by surface science approaches. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10133-4	16.4	13
27	Photoelectron spectroscopy of ionic liquid-based interfaces. <i>Chemical Reviews</i> , 2010 , 110, 5158-90	68.1	234
26	Density and surface tension of ionic liquids. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 17025-36	3.4	187
25	Ionic liquid based model catalysis: interaction of [BMIM][Tf2N] with Pd nanoparticles supported on an ordered alumina film. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 10610-21	3.6	70
24	Insights into the surface composition and enrichment effects of ionic liquids and ionic liquid mixtures. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1905-15	3.6	127
23	Ligand effects on the surface composition of Rh-containing ionic liquid solutions used in hydroformylation catalysis. <i>Chemistry - A European Journal</i> , 2010 , 16, 12083-7	4.8	27
22	Towards a molecular understanding of cation-anion interactions--probing the electronic structure of imidazolium ionic liquids by NMR spectroscopy, X-ray photoelectron spectroscopy and theoretical calculations. <i>Chemistry - A European Journal</i> , 2010 , 16, 9018-33	4.8	241
21	Influence of different anions on the surface composition of ionic liquids studied using ARXPS. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 8682-8	3.4	158
20	Influence of different substituents on the surface composition of ionic liquids studied using ARXPS. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 2854-64	3.4	166
19	Chloroalkylsulfonate ionic liquids by ring opening of sultones with organic chloride salts. <i>Chemical Communications</i> , 2008 , 3867-9	5.8	38
18	Surface characterization of functionalized imidazolium-based ionic liquids. <i>Langmuir</i> , 2008 , 24, 9500-7	4	112
17	Physical vapor deposition of [EMIM][Tf2N]: a new approach to the modification of surface properties with ultrathin ionic liquid films. <i>ChemPhysChem</i> , 2008 , 9, 2185-90	3.2	120

16	Interaction of Cobalt(II) Tetraarylporphyrins with a Ag(111) Surface Studied with Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 3090-3098	3.8	171
15	Surface enrichment and depletion effects of ions dissolved in an ionic liquid: an X-ray photoelectron spectroscopy study. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7778-80	16.4	105
14	Surface Enrichment and Depletion Effects of Ions Dissolved in an Ionic Liquid: An X-ray Photoelectron Spectroscopy Study. <i>Angewandte Chemie</i> , 2006 , 118, 7942-7944	3.6	14
13	Surface Studies on the Ionic Liquid 1-Ethyl-3-Methylimidazolium Ethylsulfate Using X-Ray Photoelectron Spectroscopy (XPS). <i>Zeitschrift Fur Physikalische Chemie</i> , 2006 , 220, 1439-1453	3.1	95
12	Geometry of the (2 \times 1) reconstruction of diamond (111). <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 3085-3092	1.8	18
11	Maier et al. Reply:. <i>Physical Review Letters</i> , 2001 , 87,	7.4	5
10	Surface doping: a special feature of diamond. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 8979-8987	1.8	17
9	Spectroscopic investigations of diamond/hydrogen/metal and diamond/metal interfaces. <i>Diamond and Related Materials</i> , 2001 , 10, 506-510	3.5	8
8	Electron affinity of plasma-hydrogenated and chemically oxidized diamond (100) surfaces. <i>Physical Review B</i> , 2001 , 64,	3.3	343
7	Diamond surface conductivity experiments and photoelectron spectroscopy. <i>Diamond and Related Materials</i> , 2001 , 10, 416-422	3.5	77
6	Origin of surface conductivity in diamond. <i>Physical Review Letters</i> , 2000 , 85, 3472-5	7.4	723
5	Electronic states of an ordered oxide on C-terminated 6H β SiC. <i>Surface Science</i> , 1999 , 442, 531-542	1.8	40
4	The hydrogenated and bare diamond (110) surface: a combined LEED-, XPS-, and ARPES study. <i>Surface Science</i> , 1999 , 443, 177-185	1.8	35
3	High-resolution surface-sensitive C 1s core-level spectra of clean and hydrogen-terminated diamond (100) and (111) surfaces. <i>Physical Review B</i> , 1998 , 57, 12397-12409	3.3	105
2	A simple design for a helium scattering apparatus. <i>Surface Science</i> , 1997 , 377-379, 1101-1105	1.8	1
1	Resonant magnetic scattering study of the 50% Ho-Tb alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 753-754	2.8	9