

Jakob Heier

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

2,708
citations

201575

27
h-index

182361

51
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69
all docs

69
docs citations

69
times ranked

3926
citing authors

#	ARTICLE	IF	CITATIONS
1	A Universal Approach for Room-Temperature Printing and Coating of 2D Materials. <i>Advanced Materials</i> , 2022, 34, e2103660.	11.1	15
2	Enhanced Room-Temperature Photoluminescence Quantum Yield in Morphology Controlled J-Aggregates. <i>Advanced Science</i> , 2021, 8, 1903080.	5.6	16
3	Coating Porous MXene Films with Tunable Porosity for High-Performance Solid-State Supercapacitors. <i>ChemElectroChem</i> , 2021, 8, 1911-1917.	1.7	21
4	Two-Dimensional Transition Metal Carbides and Nitrides (MXenes): Synthesis, Properties, and Electrochemical Energy Storage Applications. <i>Energy and Environmental Materials</i> , 2020, 3, 29-55.	7.3	319
5	Printing and coating MXenes for electrochemical energy storage devices. <i>JPhys Energy</i> , 2020, 2, 031004.	2.3	42
6	Turning Trash into Treasure: Additive Free MXene Sediment Inks for Screen-Printed Micro-Supercapacitors. <i>Advanced Materials</i> , 2020, 32, e2000716.	11.1	241
7	Towards industrialization of perovskite solar cells using slot die coating. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6124-6135.	2.7	44
8	Nanocellulose-MXene Biomimetic Aerogels with Orientation-Tunable Electromagnetic Interference Shielding Performance. <i>Advanced Science</i> , 2020, 7, 2000979.	5.6	303
9	Two-dimensional MXenes for lithium-sulfur batteries. <i>Informa-Ån-Å-Materi-Å-ly</i> , 2020, 2, 613-638.	8.5	221
10	Inkjet printed mesoscopic perovskite solar cells with custom design capability. <i>Materials Advances</i> , 2020, 1, 153-160.	2.6	40
11	Physical vapour deposition of cyanine salts and their first application in organic electronic devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 414-423.	2.7	4
12	Gravure printed Ag/conductive polymer electrodes and simulation of their electrical properties. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 3901-3912.	1.5	4
13	Excitonic channels from bio-inspired templated supramolecular assembly of J-aggregate nanowires. <i>Nanoscale</i> , 2019, 11, 6929-6938.	2.8	6
14	Exploiting supramolecular assemblies for filterless ultra-narrowband organic photodetectors with inkjet fabrication capability. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14639-14650.	2.7	24
15	Exciton Dynamics and Effects of Structural Order in Morphology-Controlled J-Aggregate Assemblies. <i>Advanced Functional Materials</i> , 2019, 29, 1806997.	7.8	15
16	Increasing Photovoltaic Performance of an Organic Cationic Chromophore by Anion Exchange. <i>Advanced Science</i> , 2018, 5, 1700496.	5.6	13
17	Cyanine platelet single crystals: growth, crystal structure and optical spectra. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29166-29173.	1.3	5
18	Combining parallel pattern generation of electrohydrodynamic lithography with serial addressing. <i>RSC Advances</i> , 2018, 8, 30932-30936.	1.7	4

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19	Superweak Coordinating Anion as Superstrong Enhancer of Cyanine Organic Semiconductor Properties. <i>ChemPhysChem</i> , 2018, 19, 3356-3363.	1.0	7
20	Insights into photovoltaic properties of ternary organic solar cells from phase diagrams. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 669-682.	2.8	13
21	Ternary semitransparent organic solar cells with a laminated top electrode. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 68-75.	2.8	19
22	Light Scattering Enhancement at the Absorption Edge in Dewetting Droplets of Cyanine Dyes. <i>Advanced Optical Materials</i> , 2017, 5, 1600903.	3.6	0
23	Strongly Red-Shifted Photoluminescence Band Induced by Molecular Twisting in Cyanine (Cy3) Dye Films. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9587-9593.	1.5	19
24	Visible light-emitting host-guest electrochemical cells using cyanine dyes. <i>Organic Electronics</i> , 2017, 48, 77-84.	1.4	27
25	Unexpected Equilibrium Ionic Distribution in Cyanine/C ₆₀ Heterojunctions. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600891.	1.9	2
26	Ultrafast charge transfer in solid-state films of pristine cyanine borate and blends with fullerene. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10935-10941.	5.2	10
27	Influence of chemically p-type doped active organic semiconductor on the film thickness versus performance trend in cyanine/C ₆₀ bilayer solar cells. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 035003.	2.8	10
28	Photochemical Transformations in Fullerene and Molybdenum Oxide Affect the Stability of Bilayer Organic Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1400734.	10.2	55
29	Resonance Light Scattering in Dye-Aggregates Forming in Dewetting Droplets. <i>ACS Nano</i> , 2014, 8, 10057-10065.	7.3	16
30	Cyanine dyes in solid state organic heterojunction solar cells. , 2014, , .		1
31	Hematite nanostructuring using electrohydrodynamic lithography. <i>Applied Surface Science</i> , 2014, 305, 62-66.	3.1	8
32	NIR-Absorbing Heptamethine Dyes with Tailor-Made Counterions for Application in Light to Energy Conversion. <i>Organic Letters</i> , 2014, 16, 1044-1047.	2.4	59
33	The SFM/ToF-SIMS combination for advanced chemically-resolved analysis at the nanoscale. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 339, 85-90.	0.6	12
34	Diyne-Functionalized Fullerene Self-Assembly for Thin Film Solid-State Polymerization. <i>Macromolecules</i> , 2014, 47, 721-728.	2.2	28
35	Towards cancer cell-specific phototoxic organometallic rhenium($\text{rhenium}(\text{III})$) complexes. <i>Dalton Transactions</i> , 2014, 43, 4287-4294.	1.6	147
36	Photonic light trapping in self-organized all-oxide microspheroids impacts photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2014, 7, 2680-2688.	15.6	47

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37	Spatially resolved photocurrent mapping of efficient organic solar cells fabricated on a woven mesh electrode. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 652-657.	4.4	6
38	Growth and Alignment of Thin Film Organic Single Crystals from Dewetting Patterns. <i>ACS Nano</i> , 2013, 7, 5506-5513.	7.3	20
39	Dewetting-driven hierarchical self-assembly of small semiconducting molecules. <i>Soft Matter</i> , 2012, 8, 5804.	1.2	5
40	(Benzimidazolylidene)Au ^I Alkynyl Complexes: Syntheses, Structure, and Photophysical Properties. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1750-1763.	1.0	19
41	Amyloid Directed Synthesis of Titanium Dioxide Nanowires and Their Applications in Hybrid Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2012, 22, 3424-3428.	7.8	72
42	Self-organised microdots formed by dewetting in a highly volatile liquid. <i>Journal of Colloid and Interface Science</i> , 2012, 378, 201-209.	5.0	3
43	Oligothiophene dendron-decorated squaraine dyes: Synthesis, thin film formation, and performance in organic solar cells. <i>Organic Electronics</i> , 2012, 13, 1204-1212.	1.4	16
44	Synthesis, thin-film morphology, and comparative study of bulk and bilayer heterojunction organic photovoltaic devices using soluble diketopyrrolopyrrole molecules. <i>Energy and Environmental Science</i> , 2011, 4, 3617.	15.6	37
45	Template synthesis of cyanine dye H-aggregates on nanostructured [6,6]-phenyl C ₆₁ -butyric acid methyl ester substrates. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15714.	1.3	5
46	Strategies to improve cyanine dye multi layer organic solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2011, 19, 851-857.	4.4	36
47	Three dimensional analysis of self-structuring organic thin films using time-of-flight secondary ion mass spectrometry. <i>Thin Solid Films</i> , 2011, 519, 6183-6189.	0.8	6
48	The effect of solvent and electric field on the size distribution of iron oxide microdots: Exploitation of self-assembly strategies for photoelectrodes. <i>Journal of Materials Research</i> , 2011, 26, 254-261.	1.2	2
49	Origin of the Kink in Current-Density Versus Voltage Curves and Efficiency Enhancement of Polymer-C ₆₀ Heterojunction Solar Cells. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1690-1699.	1.9	57
50	High performing doped cyanine bilayer solar cell. <i>Organic Electronics</i> , 2010, 11, 583-588.	1.4	41
51	Fast Assembly of Cyanine Dyes into Aggregates onto [6,6]-Phenyl C ₆₁ -Butyric Acid Methyl Ester Surfaces from Organic Solvents. <i>Langmuir</i> , 2010, 26, 3955-3961.	1.6	12
52	Improved performance of cyanine solar cells with polyaniline anodes. <i>Journal of Materials Chemistry</i> , 2010, 20, 2952.	6.7	44
53	J-aggregation of cyanine dyes by self-assembly. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 74, 484-491.	2.5	39
54	Pattern formation in thin polymer films by spatially modulated electric fields. <i>Soft Matter</i> , 2009, 5, 3997.	1.2	34

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55	Poly(3-hexylthiophene)/C60 heterojunction solar cells: Implication of morphology on performance and ambipolar charge collection. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 464-473.	3.0	51
56	Nanoscale Structuring of Semiconducting Molecular Blend Films in the Presence of Mobile Counterions. <i>Langmuir</i> , 2008, 24, 7316-7322.	1.6	30
57	Enlarged bilayer interfaces from liquid-liquid dewetting for photovoltaic applications. , 2008, , .		1
58	Ionic Space Charge Driven Organic Photovoltaic Devices. <i>Chimia</i> , 2007, 61, 787-791.	0.3	27
59	Interface control in organic heterojunction photovoltaic cells by phase separation processes. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
60	Interface morphology snapshots of vertically segregated thin films of semiconducting polymer/polystyrene blends. <i>Polymer</i> , 2007, 48, 2380-2386.	1.8	22
61	Kinetics of Individual Block Copolymer Island Formation and Disappearance near an Absorbing Boundary. <i>Macromolecules</i> , 2000, 33, 6060-6067.	2.2	31
62	Transfer of a chemical substrate pattern into an island-forming diblock copolymer film. <i>Journal of Chemical Physics</i> , 1999, 111, 11101-11110.	1.2	61
63	Spinodal Decomposition in a Subsurface Layer of a Polymer Blend Film. <i>Macromolecules</i> , 1999, 32, 3758-3765.	2.2	29
64	Anisotropic Coarsening of Two-Dimensional Surface Domains in Copolymer Thin Films. <i>Macromolecules</i> , 1999, 32, 9007-9012.	2.2	27
65	Wetting reversal transition in phase-separated polymer mixtures. <i>Macromolecular Symposia</i> , 1999, 139, 77-85.	0.4	1
66	Thin Diblock Copolymer Films on Chemically Heterogeneous Surfaces. <i>Macromolecules</i> , 1997, 30, 6610-6614.	2.2	116
67	Transient Surface Roughening of Thin Films of Phase Separating Polymer Mixtures. <i>Langmuir</i> , 1996, 12, 3716-3720.	1.6	41