

Sebastian Schellhammer

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,212
citations

394421

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docs citations

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times ranked

1977
citing authors

#	ARTICLE	IF	CITATIONS
1	Persistent <i>peri</i> -Heptacene: Synthesis and In Situ Characterization. <i>Angewandte Chemie</i> , 2021, 133, 13972-13977.	2.0	11
2	Persistent <i>peri</i> -Heptacene: Synthesis and In Situ Characterization. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13853-13858.	13.8	27
3	Band gap engineering in blended organic semiconductor films based on dielectric interactions. <i>Nature Materials</i> , 2021, 20, 1407-1413.	27.5	17
4	Electronic Doping and Enhancement of n-Channel Polycrystalline OFET Performance through Gate Oxide Modifications with Aminosilanes. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100320.	3.7	9
5	Investigating a Combined Stochastic Nucleation and Molecular Dynamics-Based Equilibration Approach for Constructing Large-Scale Polycrystalline Films. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 1266-1275.	5.3	0
6	Energy Level Engineering in Organic Thin Films by Tailored Halogenation. <i>Advanced Functional Materials</i> , 2020, 30, 2002987.	14.9	9
7	Molecular vibrations reduce the maximum achievable photovoltage in organic solar cells. <i>Nature Communications</i> , 2020, 11, 1488.	12.8	40
8	Manipulating the Charge Transfer Absorption for Narrowband Light Detection in the Near-Infrared. <i>Chemistry of Materials</i> , 2019, 31, 9325-9330.	6.7	40
9	Molecular parameters responsible for thermally activated transport in doped organic semiconductors. <i>Nature Materials</i> , 2019, 18, 242-248.	27.5	121
10	Impact of molecular quadrupole moments on the energy levels at organic heterojunctions. <i>Nature Communications</i> , 2019, 10, 2466.	12.8	101
11	Wave-shaped polycyclic hydrocarbons with controlled aromaticity. <i>Chemical Science</i> , 2019, 10, 4025-4031.	7.4	35
12	Insight into doping efficiency of organic semiconductors from the analysis of the density of states in n-doped C ₆₀ and ZnPc. <i>Nature Materials</i> , 2018, 17, 439-444.	27.5	101
13	Hole Transport in Low-Donor-Content Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5496-5501.	4.6	33
14	Absorption Tails of Donor:C ₆₀ Blends Provide Insight into Thermally Activated Charge-Transfer Processes and Polaron Relaxation. <i>Journal of the American Chemical Society</i> , 2017, 139, 1699-1704.	13.7	73
15	Competence-Based, Research-Related Lab Courses for Materials Modeling: The Case of Organic Photovoltaics. <i>Journal of Chemical Education</i> , 2017, 94, 190-194.	2.3	5
16	Coordination Polymer Framework Based On-Chip Micro-Supercapacitors with AC Line-Filtering Performance. <i>Angewandte Chemie</i> , 2017, 129, 3978-3982.	2.0	22
17	Coordination Polymer Framework Based On-Chip Micro-Supercapacitors with AC Line-Filtering Performance. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3920-3924.	13.8	140
18	A Stable Saddle-Shaped Polycyclic Hydrocarbon with an Open-Shell Singlet Ground State. <i>Angewandte Chemie</i> , 2017, 129, 3328-3332.	2.0	40

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19	A Stable Saddle-Shaped Polycyclic Hydrocarbon with an Open-Shell Singlet Ground State. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3280-3284.	13.8	90
20	Tuning Near-Infrared Absorbing Donor Materials: A Study of Electronic, Optical, and Charge-Transport Properties of aza-BODIPYs. <i>Chemistry of Materials</i> , 2017, 29, 5525-5536.	6.7	31
21	Polycyclic heteroaromatic hydrocarbons containing a benzoisindole core. <i>Organic Chemistry Frontiers</i> , 2017, 4, 847-852.	4.5	23
22	From Fluorine to Fluorene—A Route to Thermally Stable aza-BODIPYs for Organic Solar Cell Application. <i>Advanced Electronic Materials</i> , 2016, 2, 1600152.	5.1	26
23	Synthesis of NBN-Type Zigzag-Edged Polycyclic Aromatic Hydrocarbons: 1,9-Diaza-9a-boraphenylene as a Structural Motif. <i>Journal of the American Chemical Society</i> , 2016, 138, 11606-11615.	13.7	121
24	Influence of side groups on the performance of infrared absorbing aza-BODIPY organic solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2747-2753.	1.8	35
25	Materials Meets Concepts in Molecule-Based Electronics. <i>Advanced Functional Materials</i> , 2015, 25, 1933-1954.	14.9	47
26	CHAPTER 8. Concepts and Modeling for Charge Transport in Organic Electronic Materials. <i>RSC Smart Materials</i> , 2014, , 273-308.	0.1	0
27	Dynamic Effects on the Charge Transport in an Organic Near-Infrared Absorber Material. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6537-6547.	3.1	15