

# Sebastian Schellhammer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1637987/publications.pdf>

Version: 2024-02-01

27  
papers

1,212  
citations

394421

19  
h-index

580821

25  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1977  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coordination Polymer Framework Based On a Chip Micro-Supercapacitors with AC Line Filtering Performance. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3920-3924.	13.8	140
2	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
3	Molecular parameters responsible for thermally activated transport in doped organic semiconductors. <i>Nature Materials</i> , 2019, 18, 242-248.	27.5	121
4	Insight into doping efficiency of organic semiconductors from the analysis of the density of states in n-doped C60 and ZnPc. <i>Nature Materials</i> , 2018, 17, 439-444.	27.5	101
5	Impact of molecular quadrupole moments on the energy levels at organic heterojunctions. <i>Nature Communications</i> , 2019, 10, 2466.	12.8	101
6	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
7	Absorption Tails of Donor: C <sub>60</sub> 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
8	Materials Meets Concepts in Molecule-Based Electronics. <i>Advanced Functional Materials</i> , 2015, 25, 1933-1954.	14.9	47
9	A Stable Saddle-Shaped Polycyclic Hydrocarbon with an Open-Shell Singlet Ground State. <i>Angewandte Chemie</i> , 2017, 129, 3328-3332.	2.0	40
10	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
11	Molecular vibrations reduce the maximum achievable photovoltage in organic solar cells. <i>Nature Communications</i> , 2020, 11, 1488.	12.8	40
12	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
13	Wave-shaped polycyclic hydrocarbons with controlled aromaticity. <i>Chemical Science</i> , 2019, 10, 4025-4031.	7.4	35
14	Hole Transport in Low-Donor-Content Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5496-5501.	4.6	33
15	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
16	Persistent <i>peri</i> -Heptacene: Synthesis and In Situ Characterization. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13853-13858.	13.8	27
17	From Fluorine to Fluorene—A Route to Thermally Stable <i>aza</i> -BODIPYs for Organic Solar Cell Application. <i>Advanced Electronic Materials</i> , 2016, 2, 1600152.	5.1	26
18	Polycyclic heteroaromatic hydrocarbons containing a benzoisoindole core. <i>Organic Chemistry Frontiers</i> , 2017, 4, 847-852.	4.5	23

#	ARTICLE	IF	CITATIONS
19	Coordination Polymer Framework Based On a Chip Micro-Supercapacitors with AC Line Filtering Performance. <i>Angewandte Chemie</i> , 2017, 129, 3978-3982.	2.0	22
20	Band gap engineering in blended organic semiconductor films based on dielectric interactions. <i>Nature Materials</i> , 2021, 20, 1407-1413.	27.5	17
21	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
22	Persistent <i>peri</i> -Heptacene: Synthesis and In Situ Characterization. <i>Angewandte Chemie</i> , 2021, 133, 13972-13977.	2.0	11
23	Energy Level Engineering in Organic Thin Films by Tailored Halogenation. <i>Advanced Functional Materials</i> , 2020, 30, 2002987.	14.9	9
24	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
25	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
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	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