

Phillip Stadler

List of Publications by Year in descending order

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82
papers

2,505
citations

279798

23
h-index

197818

49
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83
all docs

83
docs citations

83
times ranked

4524
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO ₂ to Formate. <i>Joule</i> , 2017, 1, 794-805.	24.0	390
2	A Charge-Orbital Balance Picture of Doping in Colloidal Quantum Dot Solids. <i>ACS Nano</i> , 2012, 6, 8448-8455.	14.6	206
3	All-Inorganic Colloidal Quantum Dot Photovoltaics Employing Solution-Phase Halide Passivation. <i>Advanced Materials</i> , 2012, 24, 6295-6299.	21.0	197
4	N-Type Colloidal Quantum Dot Solids for Photovoltaics. <i>Advanced Materials</i> , 2012, 24, 6181-6185.	21.0	181
5	Fabrication and characterization of solution-processed methanofullerene-based organic field-effect transistors. <i>Journal of Applied Physics</i> , 2005, 97, 083714.	2.5	137
6	Organic field-effect transistors and memory elements using deoxyribonucleic acid (DNA) gate dielectric. <i>Organic Electronics</i> , 2007, 8, 648-654.	2.6	112
7	Molecular cobalt corrole complex for the heterogeneous electrocatalytic reduction of carbon dioxide. <i>Nature Communications</i> , 2019, 10, 3864.	12.8	112
8	Anodized Aluminum Oxide Thin Films for Room-Temperature-Processed, Flexible, Low-Voltage Organic Non-Volatile Memory Elements with Excellent Charge Retention. <i>Advanced Materials</i> , 2011, 23, 4892-4896.	21.0	102
9	Substituting the postproduction treatment for bulk-heterojunction solar cells using chemical additives. <i>Organic Electronics</i> , 2008, 9, 775-782.	2.6	95
10	Biofunctionalized conductive polymers enable efficient CO ₂ electroreduction. <i>Science Advances</i> , 2017, 3, e1700686.	10.3	89
11	Pseudohalide-Exchanged Quantum Dot Solids Achieve Record Quantum Efficiency in Infrared Photovoltaics. <i>Advanced Materials</i> , 2017, 29, 1700749.	21.0	79
12	Solution processed perovskite solar cells using highly conductive PEDOT:PSS interfacial layer. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 318-325.	6.2	69
13	Nanofibrous cobalt oxide for electrocatalysis of CO ₂ reduction to carbon monoxide and formate in an acetonitrile-water electrolyte solution. <i>Applied Catalysis B: Environmental</i> , 2018, 229, 163-170.	20.2	63
14	Chemical vapor deposition - based synthesis of conductive polydopamine thin-films. <i>Thin Solid Films</i> , 2018, 645, 320-325.	1.8	51
15	High mobility, low voltage operating C60 based n-type organic field effect transistors. <i>Synthetic Metals</i> , 2011, 161, 2058-2062.	3.9	48
16	Interfaces and traps in pentacene field-effect transistor. <i>Journal of Applied Physics</i> , 2010, 108, 113703.	2.5	45
17	Dependence of Meyer-Neldel energy on energetic disorder in organic field effect transistors. <i>Applied Physics Letters</i> , 2010, 96, 213306.	3.3	41
18	CuI as versatile hole-selective contact for organic solar cell based on anthracene-containing PPE-PPV. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 369-374.	6.2	35

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19	Andersonâ€Localization and the Mottâ€loffeâ€Regel Limit in Glassyâ€Metallic PEDOT. <i>Advanced Electronic Materials</i> , 2017, 3, 1700050.	5.1	34
20	Joint Mapping of Mobility and Trap Density in Colloidal Quantum Dot Solids. <i>ACS Nano</i> , 2013, 7, 5757-5762.	14.6	30
21	Solâ€gel derived In 2 S 3 buffer layers for inverted organic photovoltaic cells. <i>Solar Energy</i> , 2014, 108, 230-237.	6.1	30
22	Active Sulfur Sites in Semimetallic Titanium Disulfide Enable CO ₂ Electroreduction. <i>ACS Catalysis</i> , 2020, 10, 66-72.	11.2	25
23	The Role of Heteroatoms Leading to Hydrogen Bonds in View of Extended Chemical Stability of Organic Semiconductors. <i>Advanced Functional Materials</i> , 2015, 25, 6679-6688.	14.9	24
24	Improvement of Catalytic Activity by Nanofibrous CuInS ₂ for Electrochemical CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31695-31701.	8.0	24
25	Metalâ€Free Hydrogenâ€Bonded Polymers Mimic Noble Metal Electrocatalysts. <i>Advanced Materials</i> , 2020, 32, e1902177.	21.0	24
26	Effect of source-drain electric field on the Meyerâ€Neldel energy in organic field effect transistors. <i>Applied Physics Letters</i> , 2011, 98, 223301.	3.3	19
27	Local order drives the metallic state in PEDOT:PSS. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6982-6987.	5.5	19
28	Metallic conductivity beyond the Mott minimum in PEDOT: Sulphate at low temperatures. <i>Synthetic Metals</i> , 2018, 240, 59-66.	3.9	19
29	The role of the dielectric interface in organic transistors: A combined device and photoemission study. <i>Organic Electronics</i> , 2010, 11, 207-211.	2.6	18
30	Microwave-assisted Hydrothermal Synthesis of Structure-controlled ZnO Nanocrystals and Their Properties in Dye-sensitized Solar Cells. <i>Electrochemistry</i> , 2017, 85, 253-261.	1.4	18
31	Electrochemical doping for lowering contact barriers in organic field effect transistors. <i>Organic Electronics</i> , 2012, 13, 1296-1301.	2.6	15
32	Electrocatalytic Reduction of Carbon Dioxide using Sol-gel Processed Copper Indium Sulfide (CIS) Immobilized on ITO-Coated Glass Electrode. <i>Electrocatalysis</i> , 2015, 6, 405-413.	3.0	14
33	Iodideâ€Capped PbS Quantum Dots: Full Optical Characterization of a Versatile Absorber. <i>Advanced Materials</i> , 2015, 27, 1533-1539.	21.0	14
34	Influence of molecular designs on polaronic and vibrational transitions in a conjugated push-pull copolymer. <i>Scientific Reports</i> , 2016, 6, 35096.	3.3	14
35	Vanadium Redox Flow Batteries Fabricated by 3D Printing and Employing Recycled Vanadium Collected from Ammonia Slag. <i>Journal of the Electrochemical Society</i> , 2019, 166, B3125-B3130.	2.9	12
36	Single-Component Organic Solar Cells Based on Intramolecular Charge Transfer Photoabsorption. <i>Materials</i> , 2021, 14, 1200.	2.9	10

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37	Light-Sensitive Material Structure–Electrical Performance Relationship for Optical Memory Transistors Incorporating Photochromic Dihetarylenes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32987-32993.	8.0	9
38	Electric field and grain size dependence of Meyer–Neldel energy in C60 films. <i>Synthetic Metals</i> , 2011, 161, 1987-1990.	3.9	8
39	Spectroelectrochemical Studies on Quinacridone by Using Poly(vinyl alcohol) Coating as Protection Layer. <i>ChemPhysChem</i> , 2015, 16, 2206-2210.	2.1	7
40	Electrochemical self-assembly of CuSCN-DAST hybrid thin films. <i>Monatshefte für Chemie</i> , 2017, 148, 845-854.	1.8	7
41	Isotropic metallic transport in conducting polymers. <i>Synthetic Metals</i> , 2019, 254, 106-113.	3.9	7
42	Cofunction of Protons as Dopant and Reactant Activate the Electrocatalytic Hydrogen Evolution in Emeraldine–Polyguanine. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901364.	3.7	7
43	Electrochemical Hydrogen Storage in Amine–Activated Polydopamine. <i>Advanced Sustainable Systems</i> , 2021, 5, 2000176.	5.3	7
44	Increase in electron scattering length in PEDOT:PSS by a triflic acid post-processing. <i>Monatshefte für Chemie</i> , 2017, 148, 871-877.	1.8	5
45	Microwave-Assisted Hydrothermal Synthesis of Co-Doped ZnO Nanoparticles for Water Oxidation Electrocatalysis. <i>ECS Transactions</i> , 2018, 88, 369-380.	0.5	4
46	Persistent radical anions in the series of peri-arylenes: broadband light absorption until far in the NIR and purely organic magnetism. <i>Monatshefte für Chemie</i> , 2019, 150, 885-900.	1.8	4
47	Switching of Dye Loading Mechanism in Electrochemical Self-Assembly of CuSCN/DAS Hybrid Thin Films. <i>ECS Transactions</i> , 2018, 88, 313-322.	0.5	3
48	Concerted Photoluminescence of Electrochemically Self-Assembled CuSCN/Stilbazolium Dye Hybrid Thin Films. <i>ACS Omega</i> , 2019, 4, 4056-4062.	3.5	3
49	Stable Hall voltages in presence of dynamic quasi-continuum bands in poly(3,4-ethylene-dioxythiophene). <i>Organic Electronics</i> , 2019, 65, 412-418.	2.6	3
50	Effect of Film Morphology on Charge Transport in C ₆₀ -based Organic Field Effect Transistors. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1270, 1.	0.1	2
51	Thermal layer-by-layer preparation of oriented films of a Cu(ionic inorganic–organic hybrid material showing semiconducting and SHG properties). <i>Journal of Materials Chemistry C</i> , 2016, 4, 7077-7082.	5.5	2
52	Organic Microboxes Prepared by Self-assembly of a Charge-transfer Dye. <i>Chemistry Letters</i> , 2017, 46, 557-559.	1.3	2
53	Photoluminescent Property of Electrochemically Self-Assembled CuSCN/Dye Hybrid Thin Films. <i>ECS Transactions</i> , 2018, 88, 323-333.	0.5	2
54	Photoconductive Properties of Dibenzotetrathiafulvalene-Tetracyanoquinodimethane (DBTTF-TCNQ) Nanorods Prepared by the Reprecipitation Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4599-4602.	0.9	2

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55	P-type cobaltite oxide spinels enable efficient electrocatalytic oxygen evolution reaction. <i>Materials Advances</i> , 2021, 2, 5494-5500.	5.4	2
56	Vanadium Redox Flow Batteries Fabricated by 3D Printing and Employing Recycled Vanadium Collected from Ammonia Slag. <i>ECS Transactions</i> , 2018, 88, 269-278.	0.5	1
57	Polarons in Conjugated Polymers. <i>Springer Series in Surface Sciences</i> , 2018, , 355-387.	0.3	1
58	Switching of Dye Loading Mechanism in Electrochemical Self-Assembly of CuSCN/4-(N,N-dimethylamino)-4- π^2 - (N π^2 -methyl)Stilbazolium Hybrid Thin Films. <i>Journal of the Electrochemical Society</i> , 2019, 166, B3096-B3102.	2.9	1
59	Photoconductivity of Micrometer Long Organic Single Crystal Fiber Array Prepared by Evaporation-Induced Self-Assembled Method. <i>Israel Journal of Chemistry</i> , 0, , .	2.3	1
60	Current filamentation and negative differential resistance in C60 diodes. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2300-2302.	1.5	0
61	Dipole-Controlled Energy Level Alignment at Dielectric Interfaces in Organic Field-Effect Transistors. <i>Springer Series in Materials Science</i> , 2013, , 273-293.	0.6	0
62	Solution-based emerging hybrid solar cells. <i>Monatshefte für Chemie</i> , 2017, 148, 793-794.	1.8	0
63	Negative Differential Resistance in C60 Diodes. <i>Springer Proceedings in Physics</i> , 2009, , 189-193.	0.2	0
64	Rubrene Thin Film Characteristics on Mica. <i>Springer Proceedings in Physics</i> , 2009, , 43-47.	0.2	0
65	Nanofibrous Inorganic Semiconductors in Electrocatalytic CO ₂ Reduction. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
66	Microwave Synthesis of Co Doped ZnO Nanoparticles and Their Electrocatalytic Activity for Water Oxidation. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
67	Catalytic Motifs in Bio-Inspired Materials As New Generation Electrocatalysts. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
68	Switching of Dye Loading Mechanism in Electrochemical Self-Assembly of CuSCN-DAST Hybrid Thin Films. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
69	Nanocrystallization Process, Structure, and Properties of Charge-Transfer Complex Prepared by the Reprecipitation Method. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
70	(Invited) Conductive Biopolymers for Selective Metal-Devoid Electrocatalysis. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
71	Optimization of Organic Photovoltaics Incorporating P(VDF-TrFE) Nanocrystals Prepared By Reprecipitation Method. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
72	Microwave-Assisted Hydrothermal Synthesis of Transition Metal Doped ZnO Nanoparticles and Their Electrocatalytic Activity for Water Oxidation. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1561-1561.	0.0	0

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73	Electro-Polymerization of Hydrogen-Bonding Conductive Polymers As Metal-Free Electrocatalysts for Energy Conversion. ECS Meeting Abstracts, 2020, MA2020-01, 1537-1537.	0.0	0
74	Synthesis of Poly-Neutral Red and Its Electrocatalytic Property Towards CO ₂ Reduction Reaction. ECS Meeting Abstracts, 2020, MA2020-01, 2907-2907.	0.0	0
75	Concerted Photoluminescence of Electrochemically Self-Assembled CuSCN / Stilbazolium Dye Hybrid Thin Films. ECS Meeting Abstracts, 2020, MA2020-01, 1099-1099.	0.0	0
76	Mechanistic Studies for Electrochemical Self-Assembly of CuSCN/Stilbazolium Dye Hybrid Thin Films. ECS Meeting Abstracts, 2020, MA2020-01, 1160-1160.	0.0	0
77	Mimicking Noble Metals Using Hydrogen-Bonded Conducting Polymers for Electrocatalysis. ECS Meeting Abstracts, 2020, MA2020-01, 2654-2654.	0.0	0
78	Electrochemical Self-Assembly of CuSCN/4-Cyano-4- N^{\oplus} -methyl)Stilbazolium Hybrid Thin Films. ECS Transactions, 2020, 97, 457-469.	0.5	0
79	(Invited) Mechanistic Studies for Electrochemical Self-Assembly of Cuscn/Stilbazolium Dye Hybrid Thin Films. ECS Meeting Abstracts, 2020, MA2020-02, 3689-3689.	0.0	0
80	Conducting Poly-Adenine Electrocatalyst for Hydrogen Evolution Reaction. ECS Meeting Abstracts, 2020, MA2020-02, 3719-3719.	0.0	0
81	Electrochemical Co-Polymerization of Neutral Red and Aniline for Electrocatalytic Hydrogen Evolution Reaction. ECS Meeting Abstracts, 2020, MA2020-02, 3721-3721.	0.0	0
82	The Study of Synthesis Mechanism of Poly-Neutral Red and Its Electrocatalytic Property. ECS Meeting Abstracts, 2020, MA2020-02, 3582-3582.	0.0	0