

Karin Zojer

List of Publications by Year in descending order

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48
papers

2,267
citations

279798
23
h-index

214800
47
g-index

50
all docs

50
docs citations

50
times ranked

3532
citing authors

#	ARTICLE	IF	CITATIONS
1	Intersystem Crossing Processes in Nonplanar Aromatic Heterocyclic Molecules. Journal of Physical Chemistry A, 2007, 111, 10490-10499.	2.5	261
2	The lowest energy Frenkel and charge-transfer excitons in quasi-one-dimensional structures: application to MePTCDI and PTCDA crystals. Chemical Physics, 2000, 258, 73-96.	1.9	228
3	Extended Squaraine Dyes with Large Two-Photon Absorption Cross-Sections. Journal of the American Chemical Society, 2006, 128, 14444-14445.	13.7	205
4	Elementary steps in electrical doping of organic semiconductors. Nature Communications, 2018, 9, 1182.	12.8	178
5	Small contact resistance and high-frequency operation of flexible low-voltage inverted coplanar organic transistors. Nature Communications, 2019, 10, 1119.	12.8	163
6	Design of Emission Ratiometric Metal-Ion Sensors with Enhanced Two-Photon Cross Section and Brightness. Journal of the American Chemical Society, 2007, 129, 11888-11889.	13.7	122
7	Threshold Voltage Shifts in Organic Thin-Film Transistors Due to Self-Assembled Monolayers at the Dielectric Surface. Advanced Functional Materials, 2009, 19, 958-967.	14.9	101
8	Optimizing organic photovoltaics using tailored heterojunctions: A photoinduced absorption study of oligothiophenes with low band gaps. Physical Review B, 2008, 77, .	3.2	99
9	Two-Photon Absorption in Quadrupolar Bis(acceptor)-Terminated Chromophores with Electron-Rich Bis(heterocycle)vinylene Bridges. Chemistry of Materials, 2007, 19, 432-442.	6.7	66
10	Embedded Dipole Self-Assembled Monolayers for Contact Resistance Tuning in p-Type and n-Type Organic Thin Film Transistors and Flexible Electronic Circuits. Advanced Functional Materials, 2018, 28, 1804462.	14.9	66
11	Electronic and Vibronic Contributions to Two-Photon Absorption in Donor-Acceptor-Donor Squaraine Chromophores. Chemistry - A European Journal, 2008, 14, 11082-11091.	3.3	49
12	Impact of Materials versus Geometric Parameters on the Contact Resistance in Organic Thin-Film Transistors. Advanced Functional Materials, 2013, 23, 2941-2952.	14.9	45
13	Heteroleptic platinum(ii) complexes of 8-quinolinolates bearing electron withdrawing groups in 5-position. Dalton Transactions, 2008, , 4006.	3.3	44
14	Relation between injection barrier and contact resistance in top-contact organic thin-film transistors. Organic Electronics, 2012, 13, 1887-1899.	2.6	40
15	Transient absorption spectroscopy and quantum-chemical studies of matrix-isolated perylene derivatives. Physical Review B, 2006, 73, .	3.2	39
16	Role of the Charge-Transfer State in Reduced Langevin Recombination in Organic Solar Cells: A Theoretical Study. Journal of Physical Chemistry C, 2015, 119, 26588-26597.	3.1	38
17	Efficient acceptor groups for NLO chromophores: competing inductive and resonance contributions in heterocyclic acceptors derived from 2-dicyanomethylidene-3-cyano-4,5,5-trimethyl-2,5-dihydrofuran. Journal of Materials Chemistry, 2007, 17, 2944-2949.	6.7	37
18	Excited State Intramolecular Proton Transfer in 2-(2-Arylsulfonamidophenyl)benzimidazole Derivatives: Insights into the Origin of Donor Substituent-Induced Emission Energy Shifts. Journal of Physical Chemistry A, 2007, 111, 4584-4595.	2.5	32

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19	Impact of the Capacitance of the Dielectric on the Contact Resistance of Organic Thin-Film Transistors. <i>Physical Review Applied</i> , 2015, 4, .	3.8	31
20	Influence of morphology and polymer:nanoparticle ratio on device performance of hybrid solar cells—an approach in experiment and simulation. <i>Nanotechnology</i> , 2013, 24, 484005.	2.6	27
21	Charged Frenkel excitons in organic crystals. <i>Chemical Physics</i> , 2001, 272, 159-169.	1.9	25
22	Magnus' Green Salt Revisited: Impact of Platinum—Platinum Interactions on Electronic Structure and Carrier Mobilities. <i>Advanced Materials</i> , 2006, 18, 2039-2043.	21.0	24
23	Trends in Electron-Vibration and Electronic Interactions in Bis(dimethylamino) Mixed-Valence Systems: A Joint Experimental and Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7959-7967.	3.1	24
24	Tunneling Probability Increases with Distance in Junctions Comprising Self-Assembled Monolayers of Oligothiophenes. <i>Journal of the American Chemical Society</i> , 2018, 140, 15048-15055.	13.7	24
25	Origin of the bimodal island size distribution in ultrathin films of <i>p</i> -hexaphenyl on mica. <i>Physical Review B</i> , 2012, 86, .	3.2	22
26	Excited-State Properties and Emission Spectra of Nonplanar Heterocyclic Helicenes. <i>Journal of Physical Chemistry A</i> , 2006, 110, 11018-11024.	2.5	20
27	Structure to Property Relationships for Multiphoton Absorption in Covalently Linked Porphyrin Dimers: A Correction Vector INDO/MRDCI Study. <i>Journal of Physical Chemistry A</i> , 2007, 111, 8509-8518.	2.5	20
28	Impact of energy alignment and morphology on the efficiency in inorganic—organic hybrid solar cells. <i>Organic Electronics</i> , 2010, 11, 1999-2011.	2.6	20
29	Critical Evaluation of Organic Thin-Film Transistor Models. <i>Crystals</i> , 2019, 9, 85.	2.2	20
30	Coherent External and Internal Phonons in Quasi-One-Dimensional Organic Molecular Crystals. <i>Physical Review Letters</i> , 2001, 86, 4060-4063.	7.8	19
31	Area dependent behavior of bathocuproine (BCP) as cathode interfacial layers in organic photovoltaic cells. <i>Scientific Reports</i> , 2018, 8, 12608.	3.3	18
32	Interfacial Band Engineering of MoS ₂ /Gold Interfaces Using Pyrimidine—Containing Self-Assembled Monolayers: Toward Contact—Resistance—Free Bottom—Contacts. <i>Advanced Electronic Materials</i> , 2020, 6, 2000110.	5.1	18
33	Mechanism of surface proton transfer doping in pentacene based organic thin—film transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 181-192.	1.8	14
34	Surface states in molecular chains with strong mixing of Frenkel and charge-transfer excitons. <i>Chemical Physics Letters</i> , 2000, 325, 308-316.	2.6	13
35	Pore space extraction and characterization of sack paper using $\hat{\mu}$ CT. <i>Journal of Microscopy</i> , 2018, 272, 35-46.	1.8	13
36	Impact of thermal transport parameters on the operating temperature of organic light emitting diodes. <i>Journal of Applied Physics</i> , 2019, 125, 085501.	2.5	12

#	ARTICLE	IF	CITATIONS
37	On Variability and Interdependence of Local Porosity and Local Tortuosity in Porous Materials: a Case Study for Sack Paper. Methodology and Computing in Applied Probability, 2021, 23, 613-627.	1.2	12
38	Simulation of Charge Carriers in Organic Electronic Devices: Methods with their Fundamentals and Applications. Advanced Optical Materials, 2021, 9, 2100219.	7.3	12
39	Utilizing Schottky barriers to suppress short-channel effects in organic transistors. Applied Physics Letters, 2017, 111, .	3.3	11
40	Capturing Centimeter-Scale Local Variations in Paper Pore Space via μ -CT: A Benchmark Study Using Calendered Paper. Microscopy and Microanalysis, 2021, 27, 1305-1315.	0.4	10
41	Quantum confinement in linear molecular chains with strong mixing of Frenkel and charge-transfer excitons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 293, 83-92.	2.1	9
42	Order of Magnitude Effects of Thiazole Regioisomerism on the Near-IR Two-Photon Cross-Sections of Dipolar Chromophores. Advanced Functional Materials, 2008, 18, 794-801.	14.9	8
43	Influence of transport-related material parameters on the I - V characteristic of inorganic-organic hybrid solar cells. Organic Electronics, 2011, 12, 1434-1445.	2.6	8
44	Tailored heterojunctions for efficient thin-film organic solar cells: a photoinduced absorption study. Proceedings of SPIE, 2007, , .	0.8	4
45	Switching from weakly to strongly limited injection in self-aligned, nano-patterned organic transistors. Scientific Reports, 2016, 6, 31387.	3.3	4
46	Impact of position of electron withdrawing cyano groups on nonlinear optical properties of centrosymmetric donor-acceptor system. International Journal of Quantum Chemistry, 2017, 117, e25441.	2.0	3
47	2D Semiconductors: Interfacial Band Engineering of MoS_2 /Gold Interfaces Using Pyrimidine-Containing Self-Assembled Monolayers: Toward Contact-Resistance-Free Bottom-Contacts (Adv. Electron. Mater. 5/2020). Advanced Electronic Materials, 2020, 6, 2070026.	5.1	1
48	Modelling Organic Devices – Foundation, Implementation, and Merit of the Kinetic Monte Carlo Method. World Scientific Series in Nanoscience and Nanotechnology, 2019, , 135-185.	0.1	1