

Marlus Koehler

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,150
citations

448610

19
h-index

466096

32
g-index

61
all docs

61
docs citations

61
times ranked

1749
citing authors

#	ARTICLE	IF	CITATIONS
1	On the energy gap determination of organic optoelectronic materials: the case of porphyrin derivatives. <i>Materials Advances</i> , 2022, 3, 1791-1803.	2.6	21
2	Binding Energy of Triplet Excitons in Nonfullerene Acceptors: The Effects of Fluorination and Chlorination. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1393-1402.	1.1	6
3	Kinetic Modeling of the Electric Field Dependent Exciton Quenching at the Donor–Acceptor Interface. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4436-4448.	1.5	8
4	Liquidity externality in a market of buying adjustable agents. <i>Chaos, Solitons and Fractals</i> , 2021, 152, 111389.	2.5	0
5	Conditions for efficient charge generation preceded by energy transfer process in non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27568-27585.	5.2	16
6	Understanding the effect of solvent additive in polymeric thin film: turning a bilayer into a bulk heterojunction-like photovoltaic device. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 365101.	1.3	2
7	Driving Force for Exciton Dissociation in Organic Solar Cells: The Influence of Donor and Acceptor Relative Orientation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13580-13591.	1.5	16
8	Comparing C60 and C70 as acceptor in organic solar cells: Influence of the electronic structure and aggregation size on the photovoltaic characteristics. <i>Thin Solid Films</i> , 2020, 697, 137827.	0.8	28
9	Effects of non-halogenated solvent on the main properties of a solution-processed polymeric thin film for photovoltaic applications: a computational study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9693-9702.	1.3	6
10	Kinetic model for photoluminescence quenching by selective excitation of D/A blends: implications for charge separation in fullerene and non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8755-8769.	2.7	16
11	Molecular origin of efficient hole transfer from non-fullerene acceptors: insights from first-principles calculations. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12180-12193.	2.7	28
12	Effects of Fluorination on Exciton Binding Energy and Charge Transport of π -Conjugated Donor Polymers and the ITIC Molecular Acceptor: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6395-6406.	1.5	43
13	Electronic and structural properties of fluorene–thiophene copolymers as function of the composition ratio between the moieties: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20447-20458.	1.3	6
14	Charge Transfer Dynamics and Device Performance of Environmentally Friendly Processed Nonfullerene Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 4776-4785.	2.5	28
15	Electrical and morphological study of carbon nanotubes/polyaniline composite films: A model to explain different tunneling regimes induced by a vertical electric field. <i>Thin Solid Films</i> , 2017, 636, 314-324.	0.8	11
16	Polymer-dielectric molecular interactions in defect-free poly(3-hexylthiophene): dependence and consequences of regioregularity on transistor charge transport properties. <i>Semiconductor Science and Technology</i> , 2017, 32, 084003.	1.0	10
17	Conformational Change on a Bithiophene-Based Copolymer Induced by Additive Treatment: Application in Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16035-16044.	1.5	18
18	Thermally induced anchoring of fullerene in copolymers with Si-bridging atom: Spectroscopic evidences. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 171, 376-382.	2.0	6

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19	Emergence of Distinct Spatial Patterns in Cellular Automata with Inertia: A Phase Transition-Like Behavior. <i>Entropy</i> , 2017, 19, 102.	1.1	6
20	Improved charge carrier mobility in copper phthalocyanine based field effect transistors by insertion of a thin poorly conducting layer as gate insulator extension. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2759-2765.	0.8	5
21	Charge transport model for photovoltaic devices based on printed polymer: Fullerene nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2015, 141, 171-177.	3.0	34
22	Anomalous maximum and minimum for the dissociation of a geminate pair in energetically disordered media. <i>Chemical Physics Letters</i> , 2015, 620, 123-128.	1.2	3
23	Annealing effect on donor-acceptor interface and its impact on the performance of organic photovoltaic devices based on PSiF-DBT copolymer and C60. <i>Applied Physics Letters</i> , 2015, 106, 133301.	1.5	12
24	Modification of the charge transport properties of the copper phthalocyanine/poly(vinyl alcohol) interface using cationic or anionic surfactant for field-effect transistor performance enhancement. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 335104.	1.3	8
25	Electronic structure, molecular orientation, charge transfer dynamics and solar cells performance in donor/acceptor copolymers and fullerene: Experimental and theoretical approaches. <i>Journal of Applied Physics</i> , 2014, 115, 134901.	1.1	36
26	Electrical Properties of Self-Assembled Films of Polyaniline/Carbon Nanotubes Composites. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24811-24818.	1.5	29
27	Density functional theory study of the dipole across the P3HT-PCBM complex: the role of polarization and charge transfer. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 215104.	1.3	29
28	The current-voltage characteristics of polymer/C60 diodes in the dark: A direct way to assess photovoltaic devices efficiency parameters. <i>Applied Physics Letters</i> , 2013, 103, 033304.	1.5	5
29	Effect of the Temperature of Annealing on the Performance of Fluorene and Bithiophene Copolymer in Bilayer Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1390, 100.	0.1	2
30	Absorption and photoluminescence spectroscopy of rubrene single crystals. <i>Physical Review B</i> , 2012, 86, .	1.1	100
31	Hybrid vertical transistor based on controlled lateral channel overflow. <i>Journal of Applied Physics</i> , 2012, 112, 074509.	1.1	3
32	Performance of fluorene and terthiophene copolymer in bilayer photovoltaic devices: The role of the polymer conformations. <i>Organic Electronics</i> , 2012, 13, 2716-2726.	1.4	15
33	The role of the double peaked absorption spectrum in the efficiency of solar cells based on donor-acceptor-donor copolymers. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2287-2294.	3.0	33
34	Hole mobility effect in the efficiency of bilayer heterojunction polymer/C60 photovoltaic cells. <i>Applied Physics Letters</i> , 2011, 98, 253501.	1.5	23
35	Cellular automata with inertia: species competition, spatial patterns, and survival in ecotones. <i>Journal of Physics: Conference Series</i> , 2010, 246, 012040.	0.3	1
36	Transition from bulk transport to surface transport in organic field effect transistors. <i>Physical Review B</i> , 2010, 81, .	1.1	9

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37	Dipole assisted exciton dissociation at conjugated polymer/fullerene photovoltaic interfaces: A molecular study using density functional theory calculations. <i>Synthetic Metals</i> , 2010, 160, 643-650.	2.1	98
38	Modified Lampert triangle in an organic field effect transistor with traps. <i>Physical Review B</i> , 2008, 78, .	1.1	9
39	Resolving the contact voltage dilemma in organic field effect transistors. <i>Physical Review B</i> , 2008, 78, .	1.1	15
40	Evidence of fractal structure for charge transport in carbon-nanotube/conjugated-polymer composites. <i>Europhysics Letters</i> , 2007, 79, 47011.	0.7	8
41	High open-circuit voltage single-layer polybithiophene-based photovoltaic devices. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 577-580.	1.2	13
42	Positional disorder enhancement of exciton dissociation at donor-acceptor interface. <i>Journal of Applied Physics</i> , 2006, 99, 053702.	1.1	51
43	Electrical aspects of photovoltaic devices based on bi-layer organic semiconducting materials. <i>Microelectronics Journal</i> , 2005, 36, 995-997.	1.1	6
44	Space-charge and trap-filling effects in organic thin film field-effect transistors. <i>Physical Review B</i> , 2004, 70, .	1.1	34
45	Modeling bilayer polymer/fullerene photovoltaic devices. <i>Journal of Applied Physics</i> , 2004, 96, 40-43.	1.1	24
46	Integrated pulsed photoconductivity of organic light-emitting diodes. <i>Applied Physics Letters</i> , 2003, 83, 5473-5475.	1.5	5
47	Influence of diffusion, trapping, and state filling on charge injection and transport in organic insulators. <i>Physical Review B</i> , 2003, 68, .	1.1	31
48	Observation of the Mott-Gurney law in tris (8-hydroxyquinoline) aluminum films. <i>Applied Physics Letters</i> , 2002, 80, 1198-1200.	1.5	84
49	Conditions for ohmic electron injection at the Mg/Alq ₃ interface. <i>Applied Physics Letters</i> , 2002, 80, 4366-4368.	1.5	14
50	Space-charge-limited bipolar currents in polymer/C60 diodes. <i>Journal of Applied Physics</i> , 2002, 92, 5575-5577.	1.1	13
51	Electrical characteristics in unipolar conjugated polymer devices: the case of modified transport properties in the neighbourhood of the top electrode/polymer interface. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 1947-1950.	1.3	6
52	Regional approximation approach to space charge limited tunneling injection in polymeric devices. <i>Journal of Applied Physics</i> , 2000, 87, 3074-3079.	1.1	18
53	Bipolar tunnelling injection into single-layer organic light emitting devices: analytical solution using the regional approximation. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 2096-2107.	1.3	13
54	Charge Injection into Thin Conjugated Polymer Films. <i>Physica Status Solidi A</i> , 1999, 173, 29-39.	1.7	11

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55	Title is missing!. Journal of Materials Science, 1998, 6, 235-241.	1.2	6
56	Capacitance-transient-spectroscopy model for defects with two charge states. Physical Review B, 1997, 55, 9590-9597.	1.1	8
57	Temperature dependent tunnelling current at metal/polymer interfacesâ€™ potential barrier height determination. Applied Physics Letters, 1997, 70, 3254-3256.	1.5	53
58	Model and results for a deep level with two different configurations inHg _{0.3} Cd _{0.7} Te. Physical Review B, 1996, 53, 7805-7809.	1.1	4
59	Space-Charge-Limited Bipolar Currents at High Fields in Polymer/C₆₀/Diodes: A Simple Model Description. Advanced Materials Research, 0, 747, 591-594.	0.3	0
60	Fundamentals of charge transfer processes in non-fullerene-based photovoltaics: Insights from atomic scale modelling. , 0, , .		0