

Norbert Koch

List of Publications by Year in descending order

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412
papers

23,658
citations

6592

79
h-index

11030

137
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429
all docs

429
docs citations

429
times ranked

20312
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic structure and electrical properties of interfaces between metals and π -conjugated molecular films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 2529-2548.	2.4	771
2	Organic Electronic Devices and Their Functional Interfaces. <i>ChemPhysChem</i> , 2007, 8, 1438-1455.	1.0	724
3	The impact of energy alignment and interfacial recombination on the internal and external open-circuit voltage of perovskite solar cells. <i>Energy and Environmental Science</i> , 2019, 12, 2778-2788.	15.6	570
4	Orientation-dependent ionization energies and interface dipoles in ordered molecular assemblies. <i>Nature Materials</i> , 2008, 7, 326-332.	13.3	564
5	Molecular Electrical Doping of Organic Semiconductors: Fundamental Mechanisms and Emerging Dopant Design Rules. <i>Accounts of Chemical Research</i> , 2016, 49, 370-378.	7.6	549
6	Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. <i>Energy and Environmental Science</i> , 2016, 9, 81-88.	15.6	536
7	Conjugated organic molecules on metal versus polymer electrodes: Demonstration of a key energy level alignment mechanism. <i>Applied Physics Letters</i> , 2003, 82, 70-72.	1.5	481
8	Large guanidinium cation mixed with methylammonium in lead iodide perovskites for 19% efficient solar cells. <i>Nature Energy</i> , 2017, 2, 972-979.	19.8	445
9	Fluorinated Copolymer PCPDTBT with Enhanced Open-Circuit Voltage and Reduced Recombination for Highly Efficient Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 14932-14944.	6.6	361
10	Surface Termination Dependent Work Function and Electronic Properties of $\text{Ti}_3\text{C}_2\text{T}_x$ MXene. <i>Chemistry of Materials</i> , 2019, 31, 6590-6597.	3.2	359
11	Organic semiconductor density of states controls the energy level alignment at electrode interfaces. <i>Nature Communications</i> , 2014, 5, 4174.	5.8	322
12	Charge-transfer crystallites as molecular electrical dopants. <i>Nature Communications</i> , 2015, 6, 8560.	5.8	317
13	Influence of Aggregation on the Performance of All-Polymer Solar Cells Containing Low-Bandgap Naphthalenediimide Copolymers. <i>Advanced Energy Materials</i> , 2012, 2, 369-380.	10.2	316
14	Bonding Self-Assembled, Compact Organophosphonate Monolayers to the Native Oxide Surface of Silicon. <i>Journal of the American Chemical Society</i> , 2003, 125, 16074-16080.	6.6	310
15	Self-Assembly and Bonding of Alkanephosphonic Acids on the Native Oxide Surface of Titanium. <i>Langmuir</i> , 2001, 17, 5736-5738.	1.6	266
16	Optimized Hole Injection with Strong Electron Acceptors at Organic-Metal Interfaces. <i>Physical Review Letters</i> , 2005, 95, 237601.	2.9	248
17	Moderate doping leads to high performance of semiconductor/insulator polymer blend transistors. <i>Nature Communications</i> , 2013, 4, 1588.	5.8	240
18	PTCDA on Au(111), Ag(111) and Cu(111): Correlation of interface charge transfer to bonding distance. <i>Organic Electronics</i> , 2008, 9, 111-118.	1.4	220

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19	Optically switchable transistor via energy-level phototuning in a bicomponent organic semiconductor. <i>Nature Chemistry</i> , 2012, 4, 675-679.	6.6	217
20	Reduced Interface-Mediated Recombination for High Open-Circuit Voltages in CH ₃ NH ₃ PbI ₃ Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1700159.	11.1	210
21	Controlling Electron and Hole Charge Injection in Ambipolar Organic Field-Effect Transistors by Self-Assembled Monolayers. <i>Advanced Functional Materials</i> , 2009, 19, 2407-2415.	7.8	209
22	Impact of Bidirectional Charge Transfer and Molecular Distortions on the Electronic Structure of a Metal-Organic Interface. <i>Physical Review Letters</i> , 2007, 99, 256801.	2.9	206
23	Pentacene ultrathin film formation on reduced and oxidized Si surfaces. <i>Physical Review B</i> , 2003, 67, .	1.1	204
24	Evidence for Temperature-Dependent Electron Band Dispersion in Pentacene. <i>Physical Review Letters</i> , 2006, 96, 156803.	2.9	197
25	Design of Organic Semiconductors from Molecular Electrostatics. <i>Chemistry of Materials</i> , 2011, 23, 359-377.	3.2	193
26	Band Bending in Conjugated Polymer Layers. <i>Physical Review Letters</i> , 2011, 106, 216402.	2.9	188
27	Charged and metallic molecular monolayers through surface-induced aromatic stabilization. <i>Nature Chemistry</i> , 2013, 5, 187-194.	6.6	187
28	Influence of Charge Transport Layers on Open-Circuit Voltage and Hysteresis in Perovskite Solar Cells. <i>Joule</i> , 2018, 2, 788-798.	11.7	187
29	Doping of Organic Semiconductors: Impact of Dopant Strength and Electronic Coupling. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7751-7755.	7.2	186
30	Advanced Surface Modification of Indium Tin Oxide for Improved Charge Injection in Organic Devices. <i>Journal of the American Chemical Society</i> , 2005, 127, 10058-10062.	6.6	179
31	Intermolecular Hybridization Governs Molecular Electrical Doping. <i>Physical Review Letters</i> , 2012, 108, 035502.	2.9	178
32	High Fill Factor and Open Circuit Voltage in Organic Photovoltaic Cells with Diindenoperylene as Donor Material. <i>Advanced Functional Materials</i> , 2010, 20, 4295-4303.	7.8	175
33	Dynamic Scaling, Island Size Distribution, and Morphology in the Aggregation Regime of Submonolayer Pentacene Films. <i>Physical Review Letters</i> , 2003, 91, 136102.	2.9	172
34	Doping Approaches for Organic Semiconductors. <i>Chemical Reviews</i> , 2022, 122, 4420-4492.	23.0	153
35	Localized Charge Transfer in a Molecularly Doped Conducting Polymer. <i>Advanced Materials</i> , 2007, 19, 3257-3260.	11.1	152
36	Adsorption-Induced Intramolecular Dipole: Correlating Molecular Conformation and Interface Electronic Structure. <i>Journal of the American Chemical Society</i> , 2008, 130, 7300-7304.	6.6	152

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37	Tuning the Ionization Energy of Organic Semiconductor Films: The Role of Intramolecular Polar Bonds. <i>Journal of the American Chemical Society</i> , 2008, 130, 12870-12871.	6.6	152
38	Potassium Postdeposition Treatment-Induced Band Gap Widening at Cu(In,Ga)Se ₂ Surfaces – Reason for Performance Leap?. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27414-27420.	4.0	147
39	Energy levels at interfaces between metals and conjugated organic molecules. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 184008.	0.7	145
40	Towards understanding the doping mechanism of organic semiconductors by Lewis acids. <i>Nature Materials</i> , 2019, 18, 1327-1334.	13.3	144
41	Direct determination of monolayer MoS ₂ and WSe ₂ exciton binding energies on insulating and metallic substrates. <i>2D Materials</i> , 2018, 5, 025003.	2.0	142
42	The Effect of Fluorination on Pentacene/Gold Interface Energetics and Charge Reorganization Energy. <i>Advanced Materials</i> , 2007, 19, 112-116.	11.1	139
43	Beating the thermodynamic limit with photo-activation of n-doping in organic semiconductors. <i>Nature Materials</i> , 2017, 16, 1209-1215.	13.3	139
44	Impact of White Light Illumination on the Electronic and Chemical Structures of Mixed Halide and Single Crystal Perovskites. <i>Advanced Optical Materials</i> , 2017, 5, 1700139.	3.6	136
45	Chemical Vapor Deposition of N-Doped Graphene and Carbon Films: The Role of Precursors and Gas Phase. <i>ACS Nano</i> , 2014, 8, 3337-3346.	7.3	133
46	Unraveling the Light-Induced Degradation Mechanisms of CH ₃ NH ₃ PbI ₃ Perovskite Films. <i>Advanced Electronic Materials</i> , 2017, 3, 1700158.	2.6	130
47	Orders-of-Magnitude Reduction of the Contact Resistance in Short-Channel Hot Embossed Organic Thin Film Transistors by Oxidative Treatment of Au Electrodes. <i>Advanced Functional Materials</i> , 2007, 17, 2687-2692.	7.8	117
48	Interplay between morphology, structure, and electronic properties at diindenoperylene-gold interfaces. <i>Physical Review B</i> , 2003, 68, .	1.1	116
49	Work Function Independent Hole-Injection Barriers Between Pentacene and Conducting Polymers. <i>Advanced Materials</i> , 2005, 17, 330-335.	11.1	116
50	F4TCNQ on Cu, Ag, and Au as prototypical example for a strong organic acceptor on coinage metals. <i>Physical Review B</i> , 2009, 79, .	1.1	116
51	Influence of water on the work function of conducting poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonate). <i>Applied Physics Letters</i> , 2007, 90, 043512.	1.5	115
52	Perfluorinated Self-Assembled Monolayers Enhance the Stability and Efficiency of Inverted Perovskite Solar Cells. <i>ACS Nano</i> , 2020, 14, 1445-1456.	7.3	115
53	Halide Segregation versus Interfacial Recombination in Bromide-Rich Wide-Gap Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 2728-2736.	8.8	114
54	Core, Shell, and Surface-Optimized Dendrimers for Blue Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2011, 133, 1301-1303.	6.6	111

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55	Energy level alignment and morphology of interfaces between molecular and polymeric organic semiconductors. <i>Organic Electronics</i> , 2007, 8, 606-614.	1.4	110
56	Controlling the work function of ZnO and the energy-level alignment at the interface to organic semiconductors with a molecular electron acceptor. <i>Physical Review B</i> , 2013, 87, .	1.1	109
57	Epitaxial Growth of π -Stacked Perfluoropentacene on Graphene-Coated Quartz. <i>ACS Nano</i> , 2012, 6, 10874-10883.	7.3	108
58	Transparent, highly conductive graphene electrodes from acetylene-assisted thermolysis of graphite oxide sheets and nanographene molecules. <i>Nanotechnology</i> , 2009, 20, 434007.	1.3	103
59	Energy-level alignment at organic heterointerfaces. <i>Science Advances</i> , 2015, 1, e1501127.	4.7	103
60	Growth of Nb-Doped Monolayer WS ₂ by Liquid-Phase Precursor Mixing. <i>ACS Nano</i> , 2019, 13, 10768-10775.	7.3	102
61	UV \cdot ozone treated Au for air-stable, low hole injection barrier electrodes in organic electronics. <i>Journal of Applied Physics</i> , 2006, 100, 053701.	1.1	99
62	Substrate-dependent bonding distances of PTCDA: A comparative x-ray standing-wave study on Cu(111) and Ag(111). <i>Physical Review B</i> , 2007, 75, .	1.1	99
63	Efficient light emission from inorganic and organic semiconductor hybrid structures by energy-level tuning. <i>Nature Communications</i> , 2015, 6, 6754.	5.8	99
64	The effect of oxygen exposure on pentacene electronic structure. <i>European Physical Journal E</i> , 2005, 17, 339-343.	0.7	98
65	Tin-assisted heteroepitaxial PLD-growth of $\hat{\pi}$ -Ga ₂ O ₃ thin films with high crystalline quality. <i>APL Materials</i> , 2019, 7, .	2.2	98
66	Structural and electronic properties of pentacene-fullerene heterojunctions. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	97
67	Organic molecular films on gold versus conducting polymer: Influence of injection barrier height and morphology on current-voltage characteristics. <i>Applied Physics Letters</i> , 2003, 82, 2281-2283.	1.5	96
68	Understanding Performance Limiting Interfacial Recombination in <i>pin</i> Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	95
69	Electrode-molecular semiconductor contacts: Work-function-dependent hole injection barriers versus Fermi-level pinning. <i>Applied Physics Letters</i> , 2006, 89, 162107.	1.5	94
70	Harnessing the Liquid-Phase Exfoliation of Graphene Using Aliphatic Compounds: A Supramolecular Approach. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10355-10361.	7.2	92
71	Charge-Transfer Localization in Molecularly Doped Thiophene-Based Donor Polymers. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2037-2041.	2.1	91
72	Surface State Density Determines the Energy Level Alignment at Hybrid Perovskite/Electron Acceptors Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41546-41552.	4.0	89

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73	Interface Engineering of Solution-Processed Hybrid Organohalide Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 21681-21687.	4.0	89
74	Correlation between interface energetics and open circuit voltage in organic photovoltaic cells. Applied Physics Letters, 2012, 101, 233301.	1.5	88
75	Identification of different origins for s-shaped current voltage characteristics in planar heterojunction organic solar cells. Journal of Applied Physics, 2012, 111, .	1.1	86
76	Structural Order in Perfluoropentacene Thin Films and Heterostructures with Pentacene. Langmuir, 2008, 24, 7294-7298.	1.6	85
77	Band Bending in Organic Semiconductors: the Role of Alkali Halide Interlayers. Advanced Materials, 2014, 26, 925-930.	11.1	85
78	Dislocation arrangements in pentacene thin films. Physical Review B, 2004, 70, .	1.1	84
79	Tuning the Magnetic Properties of Carbon by Nitrogen Doping of Its Graphene Domains. Journal of the American Chemical Society, 2015, 137, 7678-7685.	6.6	82
80	Molecular orientation dependent energy levels at interfaces with pentacene and pentacenequinone. Organic Electronics, 2006, 7, 537-545.	1.4	81
81	Growth and preferred crystallographic orientation of hexaphenyl thin films. Thin Solid Films, 1997, 305, 232-242.	0.8	79
82	Controlling the Work Function of Indium Tin Oxide: Differentiating Dipolar from Local Surface Effects. Journal of the American Chemical Society, 2002, 124, 3192-3193.	6.6	79
83	Role of the effective mass and interfacial dipoles on exciton dissociation in organic donor-acceptor solar cells. Physical Review B, 2013, 87, .	1.1	79
84	V_{oc} from a Morphology Point of View: the Influence of Molecular Orientation on the Open Circuit Voltage of Organic Planar Heterojunction Solar Cells. Journal of Physical Chemistry C, 2014, 118, 26462-26470.	1.5	78
85	Constructing the Electronic Structure of $CH_3NH_3PbI_3$ and $CH_3NH_3PbBr_3$ Perovskite Thin Films from Single-Crystal Band Structure Measurements. Journal of Physical Chemistry Letters, 2019, 10, 601-609.	2.1	78
86	Structure, morphology, and optical properties of highly ordered films of para-sexiphenyl. Physical Review B, 2000, 61, 16538-16549.	1.1	77
87	Bi-functional interfaces by poly(ionic liquid) treatment in efficient pin and nip perovskite solar cells. Energy and Environmental Science, 2021, 14, 4508-4522.	15.6	76
88	Controlling the Early Stages of Pentacene Growth by Supersonic Molecular Beam Deposition. Physical Review Letters, 2007, 98, 076601.	2.9	75
89	Gold work function reduction by 2.2eV with an air-stable molecular donor layer. Applied Physics Letters, 2008, 93, .	1.5	75
90	Probing the energy levels in hole-doped molecular semiconductors. Materials Horizons, 2015, 2, 427-433.	6.4	75

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91	Investigating Molecular Charge Transfer Complexes with a Low Temperature Scanning Tunneling Microscope. <i>Physical Review Letters</i> , 2008, 100, 126102.	2.9	73
92	Influence of molecular conformation on organic/metal interface energetics. <i>Chemical Physics Letters</i> , 2005, 413, 390-395.	1.2	72
93	Role of charge transfer, dipole-dipole interactions, and electrostatics in Fermi-level pinning at a molecular heterojunction on a metal surface. <i>Physical Review B</i> , 2013, 87, .	1.1	70
94	Space-Charge Transfer in Hybrid Inorganic-Organic Systems. <i>Physical Review Letters</i> , 2013, 111, 226802.	2.9	68
95	Understanding and suppressing non-radiative losses in methylammonium-free wide-bandgap perovskite solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 714-726.	15.6	68
96	Surface Modification of ZnO(0001) with Phosphonate-Based Self-Assembled Monolayers: Binding Modes, Orientation, and Work Function. <i>Chemistry of Materials</i> , 2014, 26, 5042-5050.	3.2	66
97	Influence of intramolecular polar bonds on interface energetics in perfluoro-pentacene on Ag(111). <i>Physical Review B</i> , 2010, 81, .	1.1	65
98	Intrinsic Surface Dipoles Control the Energy Levels of Conjugated Polymers. <i>Advanced Functional Materials</i> , 2009, 19, 3874-3879.	7.8	64
99	Crystallisation kinetics in thin films of dihexyl-terthiophene: the appearance of polymorphic phases. <i>RSC Advances</i> , 2012, 2, 4404.	1.7	64
100	Reliable Work Function Determination of Multicomponent Surfaces and Interfaces: The Role of Electrostatic Potentials in Ultraviolet Photoelectron Spectroscopy. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700324.	1.9	61
101	Physisorption-like Interaction at the Interfaces Formed by Pentacene and Samarium. <i>Journal of Physical Chemistry B</i> , 2002, 106, 4192-4196.	1.2	60
102	Synergic Exfoliation of Graphene with Organic Molecules and Inorganic Ions for the Electrochemical Production of Flexible Electrodes. <i>ChemPlusChem</i> , 2014, 79, 439-446.	1.3	60
103	Directional Charge Transport in Layered Two-Dimensional Triazine-Based Graphitic Carbon Nitride. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9394-9398.	7.2	60
104	Electronic structure of interfaces with conjugated organic materials. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 277-293.	1.2	59
105	Synthesis of Nickel Phosphide Electrocatalysts from Hybrid Metal Phosphonates. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14013-14022.	4.0	59
106	Electronic Properties of a 1D Intrinsic/p-Doped Heterojunction in a 2D Transition Metal Dichalcogenide Semiconductor. <i>ACS Nano</i> , 2017, 11, 9128-9135.	7.3	58
107	Controlling energy level offsets in organic/organic heterostructures using intramolecular polar bonds. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	57
108	Band-offset engineering in organic/inorganic semiconductor hybrid structures. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11642.	1.3	57

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109	Light Modulation of the Charge Injection in a Polymer Thin-Film Transistor by Functionalizing the Electrodes with Bistable Photochromic Self-Assembled Monolayers. <i>Advanced Materials</i> , 2016, 28, 6606-6611.	11.1	57
110	High open circuit voltages in pin-type perovskite solar cells through strontium addition. <i>Sustainable Energy and Fuels</i> , 2019, 3, 550-563.	2.5	57
111	Investigation of MoO ₃ strong inversion layer interfaces via dopant-free heterocontact. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1700107.	1.2	56
112	Density-Dependent Reorientation and Rehybridization of Chemisorbed Conjugated Molecules for Controlling Interface Electronic Structure. <i>Physical Review Letters</i> , 2010, 104, 246805.	2.9	55
113	Electronic structure of CoPc adsorbed on Ag(100): Evidence for molecule-substrate interaction mediated by Co 3d orbitals. <i>Physical Review B</i> , 2013, 87, .	1.1	54
114	Charge Separation at Molecular Donor-Acceptor Interfaces: Correlation Between Morphology and Solar Cell Performance. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1707-1717.	1.9	53
115	Tuning the hole injection barrier height at organic/metal interfaces with (sub-) monolayers of electron acceptor molecules. <i>Applied Physics Letters</i> , 2005, 87, 101905.	1.5	52
116	Soft-Metallic Contact to Isolated C ₆₀ Molecules. <i>Nano Letters</i> , 2008, 8, 3825-3829.	4.5	50
117	Bright Blue Solution Processed Triple-Layer Polymer Light-Emitting Diodes Realized by Thermal Layer Stabilization and Orthogonal Solvents. <i>Advanced Functional Materials</i> , 2013, 23, 4897-4905.	7.8	50
118	Tuning the Work Function of Graphene-on-Quartz with a High Weight Molecular Acceptor. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4784-4790.	1.5	50
119	Modulation of Surface Charge Transfer through Competing Long-Range Repulsive versus Short-Range Attractive Interactions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18640-18648.	1.5	49
120	Two dimensional band structure mapping of organic single crystals using the new generation electron energy analyzer ARTOF. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2012, 185, 55-60.	0.8	49
121	Exploring the bonding of large hydrocarbons on noble metals: Diindoperylene on Cu(111), Ag(111), and Au(111). <i>Physical Review B</i> , 2013, 87, .	1.1	49
122	Epitaxial Growth of an Organic p-n Heterojunction: C ₆₀ on Single-Crystal Pentacene. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13499-13505.	4.0	49
123	Bipolaron: The Stable Charged Species in n-Doped p-Sexiphenyl. <i>Journal of Physical Chemistry B</i> , 2000, 104, 1434-1438.	1.2	48
124	Molecular chains and carpets of sexithiophenes on Au(111). <i>Physical Review B</i> , 2007, 76, .	1.1	48
125	Electronic and structural properties of graphene-based transparent and conductive thin film electrodes. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 1-4.	1.1	48
126	Site-Specific Geometric and Electronic Relaxations at Organic-Metal Interfaces. <i>Physical Review Letters</i> , 2010, 105, 046103.	2.9	48

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127	Copper sulfide nanoparticles as hole-transporting-material in a fully-inorganic blocking layers n-i-p perovskite solar cells: Application and working insights. Applied Surface Science, 2019, 478, 607-614.	3.1	48
128	Low-Cost TiS ₂ as Hole-Transport Material for Perovskite Solar Cells. Small Methods, 2017, 1, 1700250.	4.6	47
129	Alkali Salts as Interface Modifiers in n-i-p Hybrid Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900088.	3.1	47
130	Quantitative Analysis of Doping-Induced Polarons and Charge-Transfer Complexes of Poly(3-hexylthiophene) in Solution. Journal of Physical Chemistry B, 2020, 124, 7694-7708.	1.2	47
131	Insights into Charge Transfer at an Atomically Precise Nanocluster/Semiconductor Interface. Angewandte Chemie - International Edition, 2020, 59, 7748-7754.	7.2	47
132	Radiation induced degradation and surface charging of organic thin films in ultraviolet photoemission spectroscopy. Thin Solid Films, 2001, 391, 81-87.	0.8	46
133	Hybrid Supramolecular Naphthalene Diimide-thiophene Structures and their Application in Polymer Electronics. Advanced Functional Materials, 2007, 17, 3715-3723.	7.8	46
134	Air-Stable n-i-p Planar Perovskite Solar Cells Using Nickel Oxide Nanocrystals as Sole Hole-Transporting Material. ACS Applied Energy Materials, 2019, 2, 4890-4899.	2.5	46
135	Grain-Boundary Evolution in a Pentacene Monolayer. Advanced Materials, 2008, 20, 3254-3257.	11.1	45
136	Interdiffusion of molecular acceptors through organic layers to metal substrates mimics doping-related energy level shifts. Applied Physics Letters, 2009, 95, 093305.	1.5	45
137	Electronic Properties of Organic-Based Interfaces. MRS Bulletin, 2010, 35, 417-421.	1.7	45
138	Low-onset organic blue light emitting devices obtained by better interface control. Applied Physics Letters, 1999, 74, 2909-2911.	1.5	44
139	Structure Solution of the 6,13-Pentacenequinone Surface-Induced Polymorph by Combining X-ray Diffraction Reciprocal-Space Mapping and Theoretical Structure Modeling. Crystal Growth and Design, 2011, 11, 600-606.	1.4	44
140	Unraveling the Electronic Properties of Lead Halide Perovskites with Surface Photovoltage in Photoemission Studies. ACS Applied Materials & Interfaces, 2019, 11, 21578-21583.	4.0	44
141	Tuning hole-injection barriers at organic/metal interfaces exploiting the orientation of a molecular acceptor interlayer. Physical Review B, 2011, 84, .	1.1	43
142	Doping of C60(sub)monolayers by Fermi-level pinning induced electron transfer. Physical Review B, 2012, 86, .	1.1	43
143	Highly Efficient Color-Stable Deep-Blue Multilayer PLEDs: Preventing PEDOT:PSS-Induced Interface Degradation. Advanced Materials, 2013, 25, 4420-4424.	11.1	43
144	Charge transfer in and conductivity of molecularly doped thiophene-based copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 58-63.	2.4	43

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145	The interaction of oxygen and ozone with pentacene. <i>Surface Science</i> , 2006, 600, 4004-4007.	0.8	41
146	Zn _{0.35} Co _{0.65} O – A Stable and Highly Active Oxygen Evolution Catalyst Formed by Zinc Leaching and Tetrahedral Coordinated Cobalt in Wurtzite Structure. <i>Advanced Energy Materials</i> , 2019, 9, 1900328.	10.2	41
147	Fermi level pinning induced electrostatic fields and band bending at organic heterojunctions. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	40
148	Tuning the work function of GaN with organic molecular acceptors. <i>Physical Review B</i> , 2016, 93, .	1.1	40
149	Correlation of annealing time with crystal structure, composition, and electronic properties of CH ₃ NH ₃ Pb _{3x} Cl _x mixed-halide perovskite films. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 828-836.	1.3	40
150	Electronic Properties of the Interfaces Between the Wide Bandgap Organic Semiconductor Para-Sexiphenyl and Samarium. <i>Advanced Functional Materials</i> , 2001, 11, 51-58.	7.8	39
151	The Impact of Local Work Function Variations on Fermi Level Pinning of Organic Semiconductors. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22285-22289.	1.5	39
152	Electrochemical Water Oxidation of Ultrathin Cobalt Oxide-Based Catalyst Supported onto Aligned ZnO Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3226-3232.	4.0	39
153	Orientation-Dependent Work-Function Modification Using Substituted Pyrene-Based Acceptors. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24657-24668.	1.5	39
154	Demonstration of the key substrate-dependent charge transfer mechanisms between monolayer MoS ₂ and molecular dopants. <i>Communications Physics</i> , 2019, 2, .	2.0	38
155	Charge Transfer Absorption and Emission at ZnO/Organic Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 500-504.	2.1	37
156	A Polymorph Crystal Structure of Hexaphenyl Observed in Thin Films. <i>Crystal Research and Technology</i> , 2001, 36, 47-54.	0.6	36
157	Effect of Water, Oxygen, and Air Exposure on CH ₃ NH ₃ Pb _{3x} Cl _x Perovskite Surface Electronic Properties. <i>Advanced Electronic Materials</i> , 2018, 4, 1800307.	2.6	36
158	Weak Charge Transfer between an Acceptor Molecule and Metal Surfaces Enabling Organic/Metal Energy Level Tuning. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21069-21072.	1.2	35
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