Norbert Koch

List of Publications by Year in descending order

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412 papers	23,658 citations	6613 79 h-index	11052 137 g-index
429 all docs	429 docs citations	429 times ranked	20312 citing authors

#	Article	IF	Citations
1	Tetraaryldiborane(4) Can Emit Dual Fluorescence Responding to the Structural Change around the Bâ€“B Bond. Angewandte Chemie - International Edition, 2022, 61, .	13.8	7
2	Doping Approaches for Organic Semiconductors. Chemical Reviews, 2022, 122, 4420-4492.	47.7	153
3	Understanding and suppressing non-radiative losses in methylammonium-free wide-bandgap perovskite solar cells. Energy and Environmental Science, 2022, 15, 714-726.	30.8	68
4	Understanding the evolution of the Raman spectra of molecularly p-doped poly(3-hexylthiophene-2,5-diyl): signatures of polarons and bipolarons. Physical Chemistry Chemical Physics, 2022, 24, 3109-3118.	2.8	21
5	Illuminationâ€Driven Energy Level Realignment at Buried Interfaces between Organic Charge Transport Layers and a Lead Halide Perovskite. Solar Rrl, 2022, 6, .	5.8	8
6	Understanding Performance Limiting Interfacial Recombination in pin Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, .	19.5	95
7	Ultrafast Pumpâ€“Probe Microscopy on 2D Transition Metal Dichalcogenides. Advanced Photonics Research, 2022, 3, .	3.6	3
8	Titelbild: Tetraaryldiborane(4) Can Emit Dual Fluorescence Responding to the Structural Change around the Bâ€“B Bond (Angew. Chem. 1/2022). Angewandte Chemie, 2022, 134, .	2.0	1
9	Role of Heterojunctions of Coreâ€“Shell Heterostructures in Gas Sensing. ACS Applied Materials & Interfaces, 2022, 14, 22041-22052.	8.0	12
10	Low Temperature Heating of Silverâ€Mediated Exfoliation of MoS₂. Advanced Materials Interfaces, 2022, 9, .	3.7	9
11	Atomic Layer Deposition of MoS₂ Decorated TiO₂ Nanotubes for Photoelectrochemical Water Splitting. Advanced Materials Interfaces, 2022, 9, .	3.7	8
12	Quantum Efficiency Enhancement of Lead-Halide Perovskite Nanocrystal LEDs by Organic Lithium Salt Treatment. ACS Applied Materials & Interfaces, 2022, 14, 28985-28996.	8.0	9
13	Use of a Multiple Hydride Donor To Achieve an n-Doped Polymer with High Solvent Resistance. ACS Applied Materials & Interfaces, 2022, 14, 33598-33605.	8.0	3
14	The Interlayer Method: A Universal Tool for Energy Level Alignment Tuning at Inorganic/Organic Semiconductor Heterojunctions. Advanced Functional Materials, 2021, 31, 2010174.	14.9	18
15	Electronic properties of metal halide perovskites and their interfaces: the basics. Materials Horizons, 2021, , .	12.2	14
16	Direct growth of crystalline triazine-based graphdiyne using surface-assisted deprotectionâ€“polymerisation. Chemical Science, 2021, 12, 12661-12666.	7.4	9
17	Bi-functional interfaces by poly(ionic liquid) treatment in efficient pin and nip perovskite solar cells. Energy and Environmental Science, 2021, 14, 4508-4522.	30.8	76
18	The energy level alignment of the ferroceneâ€“EGaIn interface studied with photoelectron spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 13458-13467.	2.8	5

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19	Disentangling Bulk and Interface Phenomena in a Molecularly Doped Polymer Semiconductor. Advanced Optical Materials, 2021, 9, 2002039.	7.3	6
20	Tuning material properties of amorphous zinc oxynitride thin films by magnesium addition. APL Materials, 2021, 9, 021120.	5.1	2
21	Direct Probing of Gap States and Their Passivation in Halide Perovskites by High-Sensitivity, Variable Energy Ultraviolet Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 5217-5225.	3.1	12
22	Characterization of Charge States in Conducting Organic Nanoparticles by X-ray Photoemission Spectroscopy. Materials, 2021, 14, 2058.	2.9	1
23	Typeâ€Ⅰ Energy Level Alignment at the PTCDAâ€”Monolayer MoS₂ Interface Promotes Resonance Energy Transfer and Luminescence Enhancement. Advanced Science, 2021, 8, 2100215.	11.2	19
24	Temperatureâ€Dependent Electronic Groundâ€State Charge Transfer in van der Waals Heterostructures. Advanced Materials, 2021, 33, e2008677.	21.0	12
25	Two-dimensional plasmonic polarons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -doped monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2021, 103, .	3.2	13
26	Mechanism and Timescales of Reversible pâ€Doping of Methylammonium Lead Triiodide by Oxygen. Advanced Materials, 2021, 33, e2100211.	21.0	17
27	Band gap engineering in blended organic semiconductor films based on dielectric interactions. Nature Materials, 2021, 20, 1407-1413.	27.5	17
28	Secondary Phosphine Oxide Functionalized Gold Clusters and Their Application in Photoelectrocatalytic Hydrogenation Reactions. Journal of the American Chemical Society, 2021, 143, 9595-9600.	13.7	24
29	Coupled Organicâ€“Inorganic Nanostructures with Mixed Organic Linker Molecules. ACS Applied Materials & Interfaces, 2021, 13, 37483-37493.	8.0	1
30	Energy Level Alignment at the C₆₀/Monolayerâ€WS₂ Interface on Insulating and Conductive Substrates. Advanced Electronic Materials, 2021, 7, 2100425.	5.1	6
31	Dual Doping of MoP with M(Mn,Fe) and S to Achieve High Hydrogen Evolution Reaction Activity in Both Acidic and Alkaline Media. ChemCatChem, 2021, 13, 4392-4402.	3.7	6
32	Reversible oxygen-induced p-doping of mixed-cation halide perovskites. APL Materials, 2021, 9, 081104.	5.1	6
33	The Schottkyâ€“Mott Rule Expanded for Two-Dimensional Semiconductors: Influence of Substrate Dielectric Screening. ACS Nano, 2021, 15, 14794-14803.	14.6	25
34	Strain states and relaxation for $$alpha$$-(Al$$_x$$Ga$$_{1-x}$$)$$_2$$O$$_3$$ thin films on prismatic planes of $$alpha$$-Al$$_2$$O$$_3$$ in the full composition range: Fundamental difference of a- and m-epitaxial planes in the manifestation of shear strain and lattice tilt. Journal of Materials Research, 2021, 36, 4816-4831.	2.6	9
35	Electronic properties and degradation upon VUV irradiation of sodium chloride on Ag(111) studied by photoelectron spectroscopy. Electronic Structure, 2021, 3, 034008.	2.8	3
36	Van der Waals organic/inorganic heterostructures in the two-dimensional limit. CheM, 2021, 7, 2989-3026.	11.7	19

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37	Infrared spectroscopy depth profiling of organic thin films. Materials Horizons, 2021, 8, 1461-1471.	12.2	10
38	Benzocyclobutene polymer as an additive for a benzocyclobutene-fullerene: application in stable pâ€“iâ€“n perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 9347-9353.	10.3	6
39	Kinetic Study on the Adsorption of 2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane on Ag Nanoparticles in Chloroform: Implications for the Charge Transfer Complex of Agâ€“F₄TCNQ. ACS Applied Nano Materials, 2021, 4, 11625-11635.	5.0	2
40	Photoinduced Energy-Level Realignment at Interfaces between Organic Semiconductors and Metal-Halide Perovskites. Physical Review Letters, 2021, 127, 246401.	7.8	11
41	Opportunities for energy level tuning at inorganic/organic semiconductor interfaces. Applied Physics Letters, 2021, 119, .	3.3	16
42	Lightâ€Induced Defect Generation in CH 3 NH 3 PbI 3 Thin Films and Single Crystals. Solar Rrl, 2020, 4, 1900216.	5.8	11
43	Direct Observation of Conductive Polymer Induced Inversion Layer in nâ€Si and Correlation to Solar Cell Performance. Advanced Functional Materials, 2020, 30, 1903440.	14.9	29
44	Operando diffuse reflectance UV-vis spectroelectrochemistry for investigating oxygen evolution electrocatalysts. Catalysis Science and Technology, 2020, 10, 517-528.	4.1	15
45	Dipolar Substitution Impacts Growth and Electronic Properties of Para â€Sexiphenyl Thin Films. Advanced Materials Interfaces, 2020, 7, 1901707.	3.7	5
46	Perfluorinated Self-Assembled Monolayers Enhance the Stability and Efficiency of Inverted Perovskite Solar Cells. ACS Nano, 2020, 14, 1445-1456.	14.6	115
47	Revealing the Stoichiometric Tolerance of Lead Trihalide Perovskite Thin Films. Chemistry of Materials, 2020, 32, 114-120.	6.7	8
48	Morphology-controlled MoS₂ by low-temperature atomic layer deposition. Nanoscale, 2020, 12, 20404-20412.	5.6	14
49	Halide Segregation versus Interfacial Recombination in Bromide-Rich Wide-Gap Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 2728-2736.	17.4	114
50	Thermally Activated Goldâ€Mediated Transition Metal Dichalcogenide Exfoliation and a Unique Goldâ€Mediated Transfer. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000408.	2.4	25
51	Niobiumâ€Doped Titanium Dioxide with High Dopant Contents for Enhanced Lithiumâ€Ion Storage. ChemElectroChem, 2020, 7, 4016-4023.	3.4	18
52	Conductive Polymer Work Function Changes due to Residual Water: Impact of Temperatureâ€Dependent Dielectric Constant. Advanced Electronic Materials, 2020, 6, 2000408.	5.1	12
53	Fermi level pinned molecular donor/acceptor junctions: reduction of induced carrier density by interfacial charge transfer complexes. Journal of Materials Chemistry C, 2020, 8, 15199-15207.	5.5	1
54	Energy-Level Alignment Tuning at Tetracene/c-Si Interfaces. Journal of Physical Chemistry C, 2020, 124, 27867-27881.	3.1	12

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55	Substrate-Independent Energy-Level Pinning of an Organic Semiconductor Providing Versatile Hole-Injection Electrodes. ACS Applied Electronic Materials, 2020, 2, 3994-4001.	4.3	9
56	Oligothiopheneâ€Based Phosphonates for Surface Modification of Ultraflat Transparent Conductive Oxides. Advanced Materials Interfaces, 2020, 7, 1902114.	3.7	2
57	Position-locking of volatile reaction products by atmosphere and capping layers slows down photodecomposition of methylammonium lead triiodide perovskite. RSC Advances, 2020, 10, 17534-17542.	3.6	16
58	Single-Step Formation of a Low Work Function Cathode Interlayer and n-type Bulk Doping from Semiconducting Polymer/Polyethylenimine Blend Solution. ACS Applied Materials & Interfaces, 2020, 12, 28801-28807.	8.0	10
59	Large Conduction Band Energy Offset Is Critical for High Fill Factors in Inorganic Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 2343-2348.	17.4	20
60	The importance of sulfonate to the self-doping mechanism of the water-soluble conjugated polyelectrolyte PCPDTBT-SO₃K. Materials Chemistry Frontiers, 2020, 4, 3556-3566.	5.9	25
61	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.	2.6	47
62	An Organic Borate Salt with Superior pâ€Doping Capability for Organic Semiconductors. Advanced Science, 2020, 7, 2001322.	11.2	32
63	The optical signatures of molecular-doping induced polarons in poly(3-hexylthiophene-2,5-diyl): individual polymer chainsversusaggregates. Journal of Materials Chemistry C, 2020, 8, 2870-2879.	5.5	32
64	Solubility limit and material properties of a Î²-(AlxGa1â^'x)2O3 thin film with a lateral cation gradient on (00.1)Al2O3 by tin-assisted PLD. APL Materials, 2020, 8, 021103.	5.1	26
65	Insights into Charge Transfer at an Atomically Precise Nanocluster/Semiconductor Interface. Angewandte Chemie - International Edition, 2020, 59, 7748-7754.	13.8	47
66	Insights into Charge Transfer at an Atomically Precise Nanocluster/Semiconductor Interface. Angewandte Chemie, 2020, 132, 7822-7828.	2.0	12
67	Modulating the luminance of organic light-emitting diodes via optical stimulation of a photochromic molecular monolayer at transparent oxide electrode. Nanoscale, 2020, 12, 5444-5451.	5.6	14
68	Simultaneous Effect of Ultraviolet Radiation and Surface Modification on the Work Function and Hole Injection Properties of ZnO Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900876.	1.8	6
69	Excited-State Charge Transfer Enabling MoS₂/Phthalocyanine Photodetectors with Extended Spectral Sensitivity. Journal of Physical Chemistry C, 2020, 124, 2837-2843.	3.1	30
70	Doping-Induced Electron Transfer at Organic/Oxide Interfaces: Direct Evidence from Infrared Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 4511-4516.	3.1	7
71	Band Offsets at Î²-([Al,In]_xGa_{1â€“x})₂O₃/MgO Interfaces. ACS Applied Materials & Interfaces, 2020, 12, 8879-8885.	8.0	14
72	The Importance of Ligand Selection on the Formation of Metal Phosphonate-Derived CoMoP and CoMoP₂ Nanoparticles for Catalytic Hydrogen Evolution. ACS Applied Nano Materials, 2020, 3, 4147-4156.	5.0	23

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73	Ordered Donorâ€“Acceptor Complex Formation and Electron Transfer in Co-deposited Films of Structurally Dissimilar Molecules. Journal of Physical Chemistry C, 2020, 124, 11023-11031.	3.1	6
74	Electrode Work Function Reduction by Polyethylenimine Interlayers: Choice of Solvent and Residual Solvent Removal for Superior Functionality. Advanced Materials Interfaces, 2020, 7, 2000291.	3.7	6
75	Sensing and structure analysis by in situ IR spectroscopy: from mL flow cells to microfluidic applications. Journal of Physics Condensed Matter, 2020, 32, 393002.	1.8	10
76	X-ray standing waves reveal lack of OH termination at hydroxylated ZnO(0001) surfaces. Physical Review Materials, 2020, 4, .	2.4	6
77	The impact of energy alignment and interfacial recombination on the internal and external open-circuit voltage of perovskite solar cells. Energy and Environmental Science, 2019, 12, 2778-2788.	30.8	570
78	Air-Stable nâ€“iâ€“p Planar Perovskite Solar Cells Using Nickel Oxide Nanocrystals as Sole Hole-Transporting Material. ACS Applied Energy Materials, 2019, 2, 4890-4899.	5.1	46
79	Growth of Nb-Doped Monolayer WS₂ by Liquid-Phase Precursor Mixing. ACS Nano, 2019, 13, 10768-10775.	14.6	102
80	Demonstration of the key substrate-dependent charge transfer mechanisms between monolayer MoS2 and molecular dopants. Communications Physics, 2019, 2, .	5.3	38
81	Towards understanding the doping mechanism of organic semiconductors by Lewis acids. Nature Materials, 2019, 18, 1327-1334.	27.5	144
82	Dynamically Switching the Electronic and Electrostatic Properties of Indiumâ€“Tin Oxide Electrodes with Photochromic Monolayers: Toward Photoswitchable Optoelectronic Devices. ACS Applied Nano Materials, 2019, 2, 1102-1110.	5.0	20
83	Energy-level alignment at strongly coupled organicâ€“metal interfaces. Journal of Physics Condensed Matter, 2019, 31, 194002.	1.8	12
84	State-of-Matter-Dependent Charge-Transfer Interactions between Planar Molecules for Doping Applications. Chemistry of Materials, 2019, 31, 1237-1249.	6.7	32
85	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.	6.1	48
86	High open circuit voltages in pin-type perovskite solar cells through strontium addition. Sustainable Energy and Fuels, 2019, 3, 550-563.	4.9	57
87	Unraveling the Electronic Properties of Lead Halide Perovskites with Surface Photovoltage in Photoemission Studies. ACS Applied Materials & Interfaces, 2019, 11, 21578-21583.	8.0	44
88	Energy level alignment at organic/inorganic semiconductor heterojunctions: Fermi level pinning at the molecular interlayer with a reduced energy gap. Physical Chemistry Chemical Physics, 2019, 21, 15072-15079.	2.8	8
89	Impact of solvent exposure on the structure and electronic properties of CH3NH3PbI3â^'xClx mixed halide perovskite films. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	7
90	Electronic band dispersion determination in azimuthally disordered transition-metal dichalcogenide monolayers. Communications Physics, 2019, 2, .	5.3	11

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91	Alkali Salts as Interface Modifiers in nâ€iâ€p Hybrid Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900088.	5.8	47
92	Direct observation of state-filling at hybrid tin oxide/organic interfaces. Applied Physics Letters, 2019, 114, .	3.3	4
93	Directional Charge Transport in Layered Twoâ€Dimensional Triazineâ€Based Graphitic Carbon Nitride. Angewandte Chemie - International Edition, 2019, 58, 9394-9398.	13.8	60
94	Pulsed thermal deposition of binary and ternary transition metal dichalcogenide monolayers and heterostructures. Applied Physics Letters, 2019, 114, .	3.3	14
95	Modulation of the Work Function by the Atomic Structure of Strong Organic Electron Acceptors on Hâ€Si(111). Advanced Electronic Materials, 2019, 5, 1800891.	5.1	30
96	Switching the Electronic Properties of ZnO Surfaces with Negative Tâ€Type Photochromic Pyridylâ€dihydropyrene Layers and Impact of Fermi Level Pinning. Advanced Materials Interfaces, 2019, 6, 1900211.	3.7	13
97	Zn_{0.35}Co_{0.65}O â€“ A Stable and Highly Active Oxygen Evolution Catalyst Formed by Zinc Leaching and Tetrahedral Coordinated Cobalt in Wurtzite Structure. Advanced Energy Materials, 2019, 9, 1900328.	19.5	41
98	Surface Termination Dependent Work Function and Electronic Properties of Ti₃C₂T_x MXene. Chemistry of Materials, 2019, 31, 6590-6597.	6.7	359
99	A Self-Limited Atomic Layer Deposition of WS₂ Based on the Chemisorption and Reduction of Bis(t-butylimino)bis(dimethylamino) Complexes. Chemistry of Materials, 2019, 31, 1881-1890.	6.7	24
100	Predicting the yield of ion pair formation in molecular electrical doping: redox-potentials versus ionization energy/electron affinity. Journal of Materials Chemistry C, 2019, 7, 13839-13848.	5.5	20
101	Epitaxial Î²-(AlxGa1â^'x)2O3 thin films and heterostructures grown by tin-assisted VCCS-PLD. APL Materials, 2019, 7, .	5.1	30
102	Importance of Substrate Work Function Homogeneity for Reliable Ionization Energy Determination by Photoelectron Spectroscopy. Physica Status Solidi (B): Basic Research, 2019, 256, 1800299.	1.5	18
103	Tin-assisted heteroepitaxial PLD-growth of Î²-Ga2O3 thin films with high crystalline quality. APL Materials, 2019, 7, .	5.1	98
104	In Situ Infrared Spectroscopic Monitoring and Characterization of the Growth of Polydopamine (PDA) Films. Physica Status Solidi (B): Basic Research, 2019, 256, 1800308.	1.5	25
105	Theory of optically induced FÃ¶rster coupling in van der Waals coupled heterostructures. Physical Review B, 2019, 99, .	3.2	20
106	Modification of TiO 2 (1â€‰1â€‰0)/organic hole transport layer interface energy levels by a dipolar perylene derivative. Electronic Structure, 2019, 1, 015007.	2.8	3
107	Electronic properties of hybrid organic/inorganic semiconductor pn-junctions. Journal of Physics Condensed Matter, 2019, 31, 064002.	1.8	16
108	Constructing the Electronic Structure of CH₃NH₃PbI₃ and CH₃NH₃PbBr₃ Perovskite Thin Films from Single-Crystal Band Structure Measurements. Journal of Physical Chemistry Letters, 2019, 10, 601-609.	4.6	78

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109	Gap states induce soft Fermi level pinning upon charge transfer at ZnO/molecular acceptor interfaces. Physical Review Materials, 2019, 3, .	2.4	9
110	CdS/Low-Band-Gap Kesterite Thin-Film Solar Cell Absorber Heterojunction: Energy Level Alignment and Dominant Recombination Process. ACS Applied Energy Materials, 2018, 1, 475-482.	5.1	17
111	Electrode Work Function Engineering with Phosphonic Acid Monolayers and Molecular Acceptors: Charge Redistribution Mechanisms. Advanced Functional Materials, 2018, 28, 1704438.	14.9	25
112	Direct determination of monolayer MoS₂and WSe₂exciton binding energies on insulating and metallic substrates. 2D Materials, 2018, 5, 025003.	4.4	142
113	Polarization Resistanceâ€Free Mn₃O₄â€Based Electrocatalysts for the Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 2010-2018.	3.4	13
114	Stoichiometric and Oxygen-Deficient VO₂ as Versatile Hole Injection Electrode for Organic Semiconductors. ACS Applied Materials & Interfaces, 2018, 10, 10552-10559.	8.0	13
115	Influence of Charge Transport Layers on Open-Circuit Voltage and Hysteresis in Perovskite Solar Cells. Joule, 2018, 2, 788-798.	24.0	187
116	Intercalation makes the difference with TiS2: Boosting electrocatalytic water oxidation activity through Co intercalation. Journal of Materials Research, 2018, 33, 528-537.	2.6	4
117	Experimental Investigation on Charge Transfer Between Organic Adsorbates and Solid Surfaces. , 2018, , 50-67.		1
118	Oxygen Vacancies Allow Tuning the Work Function of Vanadium Dioxide. Advanced Materials Interfaces, 2018, 5, 1801033.	3.7	20
119	Unraveling the Microstructure of Molecularly Doped Poly(3-hexylthiophene) by Thermally Induced Dedoping. Journal of Physical Chemistry C, 2018, 122, 25893-25899.	3.1	35
120	Stark effect of hybrid charge transfer states at planar ZnO/organic interfaces. Physical Review B, 2018, 98, .	3.2	12
121	Effect of Water, Oxygen, and Air Exposure on CH₃NH₃PbI_{3â€“}_xCl_x Perovskite Surface Electronic Properties. Advanced Electronic Materials, 2018, 4, 1800307.	5.1	36
122	Dynamic Photoswitching of Electron Energy Levels at Hybrid ZnO/Organic Photochromic Molecule Junctions. Advanced Functional Materials, 2018, 28, 1800716.	14.9	26
123	Interface Engineering of Solution-Processed Hybrid Organohalide Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 21681-21687.	8.0	89
124	Influence of Oxygen Deficiency on the Rectifying Behavior of Transparent-Semiconducting-Oxideâ€“Metal Interfaces. Physical Review Applied, 2018, 9, .	3.8	29
125	Impact of surface states and bulk doping level on hybrid inorganic/organic semiconductor interface energy levels. Journal of Applied Physics, 2018, 123, 245501.	2.5	22
126	Subtle Fluorination of Conjugated Molecules Enables Stable Nanoscale Assemblies on Metal Surfaces. Journal of Physical Chemistry C, 2018, 122, 18902-18911.	3.1	10

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127	Correlating the effective work function at buried organic/metal interfaces with organic solar cell characteristics. Journal of Materials Chemistry C, 2018, 6, 8060-8068.	5.5	10
128	A Multifunctional Interlayer for Solution Processed High Performance Indium Oxide Transistors. Scientific Reports, 2018, 8, 10946.	3.3	23
129	Modification of the fluorinated tin oxide/electron-transporting material interface by a strong reductant and its effect on perovskite solar cell efficiency. Molecular Systems Design and Engineering, 2018, 3, 741-747.	3.4	9
130	Optimization of the Activity of Ni-Based Nanostructures for the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2018, 1, 4554-4563.	5.1	21
131	Microstructure and Elastic Constants of Transition Metal Dichalcogenide Monolayers from Friction and Shear Force Microscopy. Advanced Materials, 2018, 30, e1803748.	21.0	16
132	Electronic Properties of Optically Switchable Photochromic Diarylethene Molecules at the Interface with Organic Semiconductors. ChemPhysChem, 2017, 18, 722-727.	2.1	22
133	Investigation of MoO_x/nâ€Si strong inversion layer interfaces via dopantâ€free heterocontact. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700107.	2.4	56
134	Reduced Interfaceâ€Mediated Recombination for High Openâ€Circuit Voltages in CH₃NH₃PbI₃ Solar Cells. Advanced Materials, 2017, 29, 1700159.	21.0	210
135	Synthesis of Nickel Phosphide Electrocatalysts from Hybrid Metal Phosphonates. ACS Applied Materials & Interfaces, 2017, 9, 14013-14022.	8.0	59
136	Impact of White Light Illumination on the Electronic and Chemical Structures of Mixed Halide and Single Crystal Perovskites. Advanced Optical Materials, 2017, 5, 1700139.	7.3	136
137	Electronic Properties of Optically Switchable Photochromic Diarylethene Molecules at the Interface with Organic Semiconductors. ChemPhysChem, 2017, 18, 717-717.	2.1	1
138	Correlation of annealing time with crystal structure, composition, and electronic properties of CH₃NH₃PbI_{3â^'x}Cl_x mixed-halide perovskite films. Physical Chemistry Chemical Physics, 2017, 19, 828-836.	2.8	40
139	Tuning Side Chain and Main Chain Order in a Prototypical Donorâ€“Acceptor Copolymer: Implications for Optical, Electronic, and Photovoltaic Characteristics. Advances in Polymer Science, 2017, , 243-265.	0.8	0
140	Charge Separation at Nanostructured Molecular Donorâ€“Acceptor Interfaces. Advances in Polymer Science, 2017, , 77-108.	0.8	2
141	Orientation-Dependent Work-Function Modification Using Substituted Pyrene-Based Acceptors. Journal of Physical Chemistry C, 2017, 121, 24657-24668.	3.1	39
142	Role of Hybrid Charge Transfer States in the Charge Generation at ZnMgO/P3HT Heterojunctions. Journal of Physical Chemistry C, 2017, 121, 21955-21961.	3.1	12
143	Lowâ€Cost TiS₂ as Holeâ€Transport Material for Perovskite Solar Cells. Small Methods, 2017, 1, 1700250.	8.6	47
144	Reliable Work Function Determination of Multicomponent Surfaces and Interfaces: The Role of Electrostatic Potentials in Ultraviolet Photoelectron Spectroscopy. Advanced Materials Interfaces, 2017, 4, 1700324.	3.7	61

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145	Electronic Properties of a 1D Intrinsic/p-Doped Heterojunction in a 2D Transition Metal Dichalcogenide Semiconductor. ACS Nano, 2017, 11, 9128-9135.	14.6	58
146	Large guanidinium cation mixed with methylammonium in lead iodide perovskites for 19% efficient solar cells. Nature Energy, 2017, 2, 972-979.	39.5	445
147	Unraveling the Lightâ€Induced Degradation Mechanisms of CH₃NH₃PbI₃ Perovskite Films. Advanced Electronic Materials, 2017, 3, 1700158.	5.1	130
148	Beating the thermodynamic limit with photo-activation of n-doping in organic semiconductors. Nature Materials, 2017, 16, 1209-1215.	27.5	139
149	Surface State Density Determines the Energy Level Alignment at Hybrid Perovskite/Electron Acceptors Interfaces. ACS Applied Materials & Interfaces, 2017, 9, 41546-41552.	8.0	89
150	Design principles of carbazole/dibenzothiophene derivatives as host material in modern efficient organic light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 6989-6996.	5.5	24
151	Lithography-Free Miniaturization of Resistive Nonvolatile Memory Devices to the 100 nm Scale by Glancing Angle Deposition. Nano Letters, 2017, 17, 1149-1153.	9.1	11
152	Lightâ€Modulation of the Charge Injection in a Polymer Thinâ€Film Transistor by Functionalizing the Electrodes with Bistable Photochromic Selfâ€Assembled Monolayers. Advanced Materials, 2016, 28, 6606-6611.	21.0	57
153	Effective Work Function Reduction of Practical Electrodes Using an Organometallic Dimer. Advanced Functional Materials, 2016, 26, 2493-2502.	14.9	28
154	Metal nanoparticle mediated space charge and its optical control in an organic hole-only device. Applied Physics Letters, 2016, 108, 153302.	3.3	4
155	Polarity of pulsed laser deposited ZnO nanostructures. Applied Physics Letters, 2016, 108, .	3.3	6
156	A comprehensive and unified picture of energy level alignment at interfaces with organic semiconductors. , 2016, , .		4
157	Energy level tuning at inorganic/organic semiconductor heterojunctions. , 2016, , .		0
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