Norbert Koch

List of Publications by Year in Descending Order

404 papers	19,653 citations	74 h-index	125 g-index
429 ext. papers	21,566 ext. citations	7.7 avg, IF	6.87 L-index

#	Paper	IF	Citations
404	Understanding Performance Limiting Interfacial Recombination in pin Perovskite Solar Cells. *Advanced Energy Materials*, **2022**, 2103567	21.8	13
403	Doping Approaches for Organic Semiconductors. *Chemical Reviews*, **2021**,	68.1	26
402	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	3.8	4
401	Characterization of Charge States in Conducting Organic Nanoparticles by X-ray Photoemission Spectroscopy. *Materials*, **2021**, 14,	3.5	1
400	Type-I Energy Level Alignment at the PTCDA-Monolayer MoS Interface Promotes Resonance Energy Transfer and Luminescence Enhancement. *Advanced Science*, **2021**, 8, 2100215	13.6	1
399	Temperature-Dependent Electronic Ground-State Charge Transfer in van der Waals Heterostructures. *Advanced Materials*, **2021**, 33, e2008677	24	2
398	Two-dimensional plasmonic polarons in n-doped monolayer MoS2. *Physical Review B*, **2021**, 103,	3.3	1
397	Mechanism and Timescales of Reversible p-Doping of Methylammonium Lead Triiodide by Oxygen. *Advanced Materials*, **2021**, 33, e2100211	24	8
396	Band gap engineering in blended organic semiconductor films based on dielectric interactions. *Nature Materials*, **2021**, 20, 1407-1413	27	4
395	Secondary Phosphine Oxide Functionalized Gold Clusters and Their Application in Photoelectrocatalytic Hydrogenation Reactions. *Journal of the American Chemical Society*, **2021**, 143, 9595-9600	16.4	8
394	Coupled Organic-Inorganic Nanostructures with Mixed Organic Linker Molecules. *ACS Applied Materials & Interfaces*, **2021**, 13, 37483-37493	9.5	0
393	The Interlayer Method: A Universal Tool for Energy Level Alignment Tuning at Inorganic/Organic Semiconductor Heterojunctions. *Advanced Functional Materials*, **2021**, 31, 2010174	15.6	11
392	Electronic properties of metal halide perovskites and their interfaces: the basics. *Materials Horizons* , **2021**,	14.4	4
391	Direct growth of crystalline triazine-based graphdiyne using surface-assisted deprotection-polymerisation. *Chemical Science*, **2021**, 12, 12661-12666	9.4	2
390	The energy level alignment of the ferrocene-EGaIn interface studied with photoelectron spectroscopy. *Physical Chemistry Chemical Physics*, **2021**, 23, 13458-13467	3.6	3
389	Disentangling Bulk and Interface Phenomena in a Molecularly Doped Polymer Semiconductor. *Advanced Optical Materials*, **2021**, 9, 2002039	8.1	1
388	Tuning material properties of amorphous zinc oxynitride thin films by magnesium addition. *APL Materials*, **2021**, 9, 021120	5.7	0

387	Energy Level Alignment at the C60/Monolayer-WS2 Interface on Insulating and Conductive Substrates. *Advanced Electronic Materials*, **2021**, 7, 2100425	6.4	0
386	Reversible oxygen-induced p-doping of mixed-cation halide perovskites. *APL Materials*, **2021**, 9, 081104	5.7	3
385	The Schottky-Mott Rule Expanded for Two-Dimensional Semiconductors: Influence of Substrate Dielectric Screening. *ACS Nano*, **2021**, 15, 14794-14803	16.7	2
384	Electronic properties and degradation upon VUV irradiation of sodium chloride on Ag(111) studied by photoelectron spectroscopy. *Electronic Structure*, **2021**, 3, 034008	2.6	0
383	Van der Waals organic/inorganic heterostructures in the two-dimensional limit. *CheM*, **2021**,	16.2	5
382	Infrared spectroscopy depth profiling of organic thin films. *Materials Horizons*, **2021**, 8, 1461-1471	14.4	4
381	Benzocyclobutene polymer as an additive for a benzocyclobutene-fullerene: application in stable p□□ perovskite solar cells. *Journal of Materials Chemistry A*, **2021**, 9, 9347-9353	13	2
380	Photoinduced Energy-Level Realignment at Interfaces between Organic Semiconductors and Metal-Halide Perovskites.. *Physical Review Letters*, **2021**, 127, 246401	7.4	1
379	Opportunities for energy level tuning at inorganic/organic semiconductor interfaces. *Applied Physics Letters*, **2021**, 119, 260501	3.4	2
378	Energy-Level Alignment Tuning at Tetracene/c-Si Interfaces. *Journal of Physical Chemistry C*, **2020**, 124, 27867-27881	3.8	6
377	Substrate-Independent Energy-Level Pinning of an Organic Semiconductor Providing Versatile Hole-Injection Electrodes. *ACS Applied Electronic Materials*, **2020**, 2, 3994-4001	4	1
376	Oligothiophene-Based Phosphonates for Surface Modification of Ultraflat Transparent Conductive Oxides. *Advanced Materials Interfaces*, **2020**, 7, 1902114	4.6	1
375	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	3.7	10
374	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	9.5	7
373	Large Conduction Band Energy Offset Is Critical for High Fill Factors in Inorganic Perovskite Solar Cells. *ACS Energy Letters*, **2020**, 5, 2343-2348	20.1	11
372	The importance of sulfonate to the self-doping mechanism of the water-soluble conjugated polyelectrolyte PCPDTBT-SO3K. *Materials Chemistry Frontiers*, **2020**, 4, 3556-3566	7.8	16
371	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	3.4	22
370	An Organic Borate Salt with Superior -Doping Capability for Organic Semiconductors. *Advanced Science*, **2020**, 7, 2001322	13.6	13

369	The optical signatures of molecular-doping induced polarons in poly(3-hexylthiophene-2,5-diyl): individual polymer chains versus aggregates. *Journal of Materials Chemistry C*, **2020**, 8, 2870-2879	7.1	19
368	Solubility limit and material properties of a □(AlxGa1□)2O3 thin film with a lateral cation gradient on (00.1)Al2O3 by tin-assisted PLD. *APL Materials*, **2020**, 8, 021103	5.7	17
367	Insights into Charge Transfer at an Atomically Precise Nanocluster/Semiconductor Interface. *Angewandte Chemie - International Edition*, **2020**, 59, 7748-7754	16.4	29
366	Insights into Charge Transfer at an Atomically Precise Nanocluster/Semiconductor Interface. *Angewandte Chemie*, **2020**, 132, 7822-7828	3.6	3
365	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	7.7	8
364	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	1.6	4
363	Excited-State Charge Transfer Enabling MoS2/Phthalocyanine Photodetectors with Extended Spectral Sensitivity. *Journal of Physical Chemistry C*, **2020**, 124, 2837-2843	3.8	14
362	Doping-Induced Electron Transfer at Organic/Oxide Interfaces: Direct Evidence from Infrared Spectroscopy. *Journal of Physical Chemistry C*, **2020**, 124, 4511-4516	3.8	5
361	Band Offsets at □([Al,In]Ga)O/MgO Interfaces. *ACS Applied Materials & Interfaces*, **2020**, 12, 8879-8885	9.5	12
360	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	5.6	12
359	Ordered Donor□Acceptor Complex Formation and Electron Transfer in Co-deposited Films of Structurally Dissimilar Molecules. *Journal of Physical Chemistry C*, **2020**, 124, 11023-11031	3.8	3
358	X-ray standing waves reveal lack of OH termination at hydroxylated ZnO(0001) surfaces. *Physical Review Materials*, **2020**, 4,	3.2	4
357	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	6
356	Direct Observation of Conductive Polymer Induced Inversion Layer in n-Si and Correlation to Solar Cell Performance. *Advanced Functional Materials*, **2020**, 30, 1903440	15.6	20
355	Operando diffuse reflectance UV-vis spectroelectrochemistry for investigating oxygen evolution electrocatalysts. *Catalysis Science and Technology*, **2020**, 10, 517-528	5.5	8
354	Dipolar Substitution Impacts Growth and Electronic Properties of Para-Sexiphenyl Thin Films. *Advanced Materials Interfaces*, **2020**, 7, 1901707	4.6	4
353	Perfluorinated Self-Assembled Monolayers Enhance the Stability and Efficiency of Inverted Perovskite Solar Cells. *ACS Nano*, **2020**, 14, 1445-1456	16.7	74
352	Revealing the Stoichiometric Tolerance of Lead Trihalide Perovskite Thin Films. *Chemistry of Materials*, **2020**, 32, 114-120	9.6	4

351	Morphology-controlled MoS by low-temperature atomic layer deposition. *Nanoscale*, **2020**, 12, 20404-20412	7.7	6
350	Halide Segregation versus Interfacial Recombination in Bromide-Rich Wide-Gap Perovskite Solar Cells. *ACS Energy Letters*, **2020**, 5, 2728-2736	20.1	54
349	Thermally Activated Gold-Mediated Transition Metal Dichalcogenide Exfoliation and a Unique Gold-Mediated Transfer. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 2000408	2.5	10
348	Niobium-Doped Titanium Dioxide with High Dopant Contents for Enhanced Lithium-Ion Storage. *ChemElectroChem*, **2020**, 7, 4016-4023	4.3	6
347	Conductive Polymer Work Function Changes due to Residual Water: Impact of Temperature-Dependent Dielectric Constant. *Advanced Electronic Materials*, **2020**, 6, 2000408	6.4	3
346	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	7.1	0
345	Light-Induced Defect Generation in CH3NH3PbI3 Thin Films and Single Crystals. *Solar Rrl*, **2020**, 4, 1900216	7.1	9
344	Electrode Work Function Reduction by Polyethylenimine Interlayers: Choice of Solvent and Residual Solvent Removal for Superior Functionality. *Advanced Materials Interfaces*, **2020**, 7, 2000291	4.6	3
343	Growth of Nb-Doped Monolayer WS by Liquid-Phase Precursor Mixing. *ACS Nano*, **2019**, 13, 10768-10775	16.7	54
342	Demonstration of the key substrate-dependent charge transfer mechanisms between monolayer MoS2 and molecular dopants. *Communications Physics*, **2019**, 2,	5.4	21
341	Towards understanding the doping mechanism of organic semiconductors by Lewis acids. *Nature Materials*, **2019**, 18, 1327-1334	27	85
340	Dynamically Switching the Electronic and Electrostatic Properties of Indium Tin Oxide Electrodes with Photochromic Monolayers: Toward Photoswitchable Optoelectronic Devices. *ACS Applied Nano Materials*, **2019**, 2, 1102-1110	5.6	15
339	Energy-level alignment at strongly coupled organic-metal interfaces. *Journal of Physics Condensed Matter*, **2019**, 31, 194002	1.8	8
338	State-of-Matter-Dependent Charge-Transfer Interactions between Planar Molecules for Doping Applications. *Chemistry of Materials*, **2019**, 31, 1237-1249	9.6	22
337	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	6.7	27
336	High open circuit voltages in pin-type perovskite solar cells through strontium addition. *Sustainable Energy and Fuels*, **2019**, 3, 550-563	5.8	42
335	Unraveling the Electronic Properties of Lead Halide Perovskites with Surface Photovoltage in Photoemission Studies. *ACS Applied Materials & Interfaces*, **2019**, 11, 21578-21583	9.5	31
334	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	3.6	8

333	Impact of solvent exposure on the structure and electronic properties of CH3NH3PbI3−xClx mixed halide perovskite films. *Applied Physics A: Materials Science and Processing*, **2019**, 125, 1	2.6	3
332	Electronic band dispersion determination in azimuthally disordered transition-metal dichalcogenide monolayers. *Communications Physics*, **2019**, 2,	5.4	9
331	Alkali Salts as Interface Modifiers in n-i-p Hybrid Perovskite Solar Cells. *Solar Rrl*, **2019**, 3, 1900088	7.1	32
330	Direct observation of state-filling at hybrid tin oxide/organic interfaces. *Applied Physics Letters*, **2019**, 114, 183301	3.4	3
329	Directional Charge Transport in Layered Two-Dimensional Triazine-Based Graphitic Carbon Nitride. *Angewandte Chemie - International Edition*, **2019**, 58, 9394-9398	16.4	31
328	Pulsed thermal deposition of binary and ternary transition metal dichalcogenide monolayers and heterostructures. *Applied Physics Letters*, **2019**, 114, 162101	3.4	9
327	Modulation of the Work Function by the Atomic Structure of Strong Organic Electron Acceptors on H-Si(111). *Advanced Electronic Materials*, **2019**, 5, 1800891	6.4	21
326	Switching the Electronic Properties of ZnO Surfaces with Negative T-Type Photochromic Pyridyl-dihydropyrene Layers and Impact of Fermi Level Pinning. *Advanced Materials Interfaces*, **2019**, 6, 1900211	4.6	10
325	Zn0.35Co0.65O □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	21.8	27
324	Surface Termination Dependent Work Function and Electronic Properties of Ti3C2Tx MXene. *Chemistry of Materials*, **2019**, 31, 6590-6597	9.6	169
323	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	35.4	348
322	Air-Stable n□p Planar Perovskite Solar Cells Using Nickel Oxide Nanocrystals as Sole Hole-Transporting Material. *ACS Applied Energy Materials*, **2019**, 2, 4890-4899	6.1	29
321	Gap states induce soft Fermi level pinning upon charge transfer at ZnO/molecular acceptor interfaces. *Physical Review Materials*, **2019**, 3,	3.2	8
320	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	9.6	14
319	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	7.1	11
318	Epitaxial □(AlxGa1−x)2O3 thin films and heterostructures grown by tin-assisted VCCS-PLD. *APL Materials*, **2019**, 7, 111110	5.7	17
317	Importance of Substrate Work Function Homogeneity for Reliable Ionization Energy Determination by Photoelectron Spectroscopy. *Physica Status Solidi (B): Basic Research*, **2019**, 256, 1800299	1.3	8
316	Tin-assisted heteroepitaxial PLD-growth of □Ga2O3 thin films with high crystalline quality. *APL Materials*, **2019**, 7, 022516	5.7	63

315	In Situ Infrared Spectroscopic Monitoring and Characterization of the Growth of Polydopamine (PDA) Films. *Physica Status Solidi (B): Basic Research*, **2019**, 256, 1800308	1.3	15
314	Theory of optically induced Förster coupling in van der Waals coupled heterostructures. *Physical Review B*, **2019**, 99,	3.3	11
313	Modification of TiO 2 (1 1 0)/organic hole transport layer interface energy levels by a dipolar perylene derivative. *Electronic Structure*, **2019**, 1, 015007	2.6	3
312	Electronic properties of hybrid organic/inorganic semiconductor pn-junctions. *Journal of Physics Condensed Matter*, **2019**, 31, 064002	1.8	13
311	Constructing the Electronic Structure of CHNHPbI and CHNHPbBr Perovskite Thin Films from Single-Crystal Band Structure Measurements. *Journal of Physical Chemistry Letters*, **2019**, 10, 601-609	6.4	55
310	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	6.1	12
309	Electrode Work Function Engineering with Phosphonic Acid Monolayers and Molecular Acceptors: Charge Redistribution Mechanisms. *Advanced Functional Materials*, **2018**, 28, 1704438	15.6	18
308	Direct determination of monolayer MoS2and WSe2exciton binding energies on insulating and metallic substrates. *2D Materials*, **2018**, 5, 025003	5.9	100
307	Polarization Resistance-Free Mn3O4-Based Electrocatalysts for the Oxygen Reduction Reaction. *ChemElectroChem*, **2018**, 5, 2010-2018	4.3	12
306	Stoichiometric and Oxygen-Deficient VO as Versatile Hole Injection Electrode for Organic Semiconductors. *ACS Applied Materials & Interfaces*, **2018**, 10, 10552-10559	9.5	11
305	Influence of Charge Transport Layers on Open-Circuit Voltage and Hysteresis in Perovskite Solar Cells. *Joule*, **2018**, 2, 788-798	27.8	147
304	Subtle Fluorination of Conjugated Molecules Enables Stable Nanoscale Assemblies on Metal Surfaces. *Journal of Physical Chemistry C*, **2018**, 122, 18902-18911	3.8	9
303	Correlating the effective work function at buried organic/metal interfaces with organic solar cell characteristics. *Journal of Materials Chemistry C*, **2018**, 6, 8060-8068	7.1	7
302	A Multifunctional Interlayer for Solution Processed High Performance Indium Oxide Transistors. *Scientific Reports*, **2018**, 8, 10946	4.9	11
301	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	4.6	7
300	Optimization of the Activity of Ni-Based Nanostructures for the Oxygen Evolution Reaction. *ACS Applied Energy Materials*, **2018**, 1, 4554-4563	6.1	11
299	Microstructure and Elastic Constants of Transition Metal Dichalcogenide Monolayers from Friction and Shear Force Microscopy. *Advanced Materials*, **2018**, 30, e1803748	24	10
298	Intercalation makes the difference with TiS2: Boosting electrocatalytic water oxidation activity through Co intercalation. *Journal of Materials Research*, **2018**, 33, 528-537	2.5	3

297	Experimental Investigation on Charge Transfer Between Organic Adsorbates and Solid Surfaces **2018**, 50-67		1
296	Oxygen Vacancies Allow Tuning the Work Function of Vanadium Dioxide. *Advanced Materials Interfaces*, **2018**, 5, 1801033	4.6	12
295	Unraveling the Microstructure of Molecularly Doped Poly(3-hexylthiophene) by Thermally Induced Dedoping. *Journal of Physical Chemistry C*, **2018**, 122, 25893-25899	3.8	26
294	Stark effect of hybrid charge transfer states at planar ZnO/organic interfaces. *Physical Review B*, **2018**, 98,	3.3	10
293	Effect of Water, Oxygen, and Air Exposure on CH3NH3PbI3−xClx Perovskite Surface Electronic Properties. *Advanced Electronic Materials*, **2018**, 4, 1800307	6.4	30
292	Dynamic Photoswitching of Electron Energy Levels at Hybrid ZnO/Organic Photochromic Molecule Junctions. *Advanced Functional Materials*, **2018**, 28, 1800716	15.6	22
291	Interface Engineering of Solution-Processed Hybrid Organohalide Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 21681-21687	9.5	62
290	Influence of Oxygen Deficiency on the Rectifying Behavior of Transparent-Semiconducting-Oxide/Metal Interfaces. *Physical Review Applied*, **2018**, 9,	4.3	23
289	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	13
288	Electronic Properties of Optically Switchable Photochromic Diarylethene Molecules at the Interface with Organic Semiconductors. *ChemPhysChem*, **2017**, 18, 722-727	3.2	15
287	Investigation of MoOx/n-Si strong inversion layer interfaces via dopant-free heterocontact. *Physica Status Solidi - Rapid Research Letters*, **2017**, 11, 1700107	2.5	45
286	Reduced Interface-Mediated Recombination for High Open-Circuit Voltages in CH NH PbI Solar Cells. *Advanced Materials*, **2017**, 29, 1700159	24	163
285	Synthesis of Nickel Phosphide Electrocatalysts from Hybrid Metal Phosphonates. *ACS Applied Materials & Interfaces*, **2017**, 9, 14013-14022	9.5	44
284	Impact of White Light Illumination on the Electronic and Chemical Structures of Mixed Halide and Single Crystal Perovskites. *Advanced Optical Materials*, **2017**, 5, 1700139	8.1	109
283	Electronic Properties of Optically Switchable Photochromic Diarylethene Molecules at the Interface with Organic Semiconductors. *ChemPhysChem*, **2017**, 18, 717-717	3.2	1
282	Tuning Side Chain and Main Chain Order in a Prototypical Donor–Acceptor Copolymer: Implications for Optical, Electronic, and Photovoltaic Characteristics. *Advances in Polymer Science*, **2017**, 243-265	1.3	
281	Charge Separation at Nanostructured Molecular Donor–Acceptor Interfaces. *Advances in Polymer Science*, **2017**, 77-108	1.3	2
280	Orientation-Dependent Work-Function Modification Using Substituted Pyrene-Based Acceptors. *Journal of Physical Chemistry C*, **2017**, 121, 24657-24668	3.8	25

279	Role of Hybrid Charge Transfer States in the Charge Generation at ZnMgO/P3HT Heterojunctions. *Journal of Physical Chemistry C*, **2017**, 121, 21955-21961	3.8	9
278	Low-Cost TiS2 as Hole-Transport Material for Perovskite Solar Cells. *Small Methods*, **2017**, 1, 1700250	12.8	35
277	Reliable Work Function Determination of Multicomponent Surfaces and Interfaces: The Role of Electrostatic Potentials in Ultraviolet Photoelectron Spectroscopy. *Advanced Materials Interfaces*, **2017**, 4, 1700324	4.6	35
276	Electronic Properties of a 1D Intrinsic/p-Doped Heterojunction in a 2D Transition Metal Dichalcogenide Semiconductor. *ACS Nano*, **2017**, 11, 9128-9135	16.7	47
275	Large guanidinium cation mixed with methylammonium in lead iodide perovskites for 19% efficient solar cells. *Nature Energy*, **2017**, 2, 972-979	62.3	339
274	Unraveling the Light-Induced Degradation Mechanisms of CH3NH3PbI3 Perovskite Films. *Advanced Electronic Materials*, **2017**, 3, 1700158	6.4	89
273	Beating the thermodynamic limit with photo-activation of n-doping in organic semiconductors. *Nature Materials*, **2017**, 16, 1209-1215	27	120
272	Surface State Density Determines the Energy Level Alignment at Hybrid Perovskite/Electron Acceptors Interfaces. *ACS Applied Materials & Interfaces*, **2017**, 9, 41546-41552	9.5	65
271	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	7.1	20
270	Lithography-Free Miniaturization of Resistive Nonvolatile Memory Devices to the 100 nm Scale by Glancing Angle Deposition. *Nano Letters*, **2017**, 17, 1149-1153	11.5	10
269	Correlation of annealing time with crystal structure, composition, and electronic properties of CHNHPbICl mixed-halide perovskite films. *Physical Chemistry Chemical Physics*, **2016**, 19, 828-836	3.6	34
268	Tuning the work function of GaN with organic molecular acceptors. *Physical Review B*, **2016**, 93,	3.3	32
267	Organic heterojunctions: Contact-induced molecular reorientation, interface states, and charge re-distribution. *Scientific Reports*, **2016**, 6, 21291	4.9	34
266	Electrochemical Water Oxidation of Ultrathin Cobalt Oxide-Based Catalyst Supported onto Aligned ZnO Nanorods. *ACS Applied Materials & Interfaces*, **2016**, 8, 3226-32	9.5	35
265	Monolayer Phases of a Dipolar Perylene Derivative on Au(111) and Surface Potential Build-Up in Multilayers. *Langmuir*, **2016**, 32, 3587-600	4	11
264	Molecular Electrical Doping of Organic Semiconductors: Fundamental Mechanisms and Emerging Dopant Design Rules. *Accounts of Chemical Research*, **2016**, 49, 370-8	24.3	415
263	Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. *Energy and Environmental Science*, **2016**, 9, 81-88	35.4	469
262	Light-Modulation of the Charge Injection in a Polymer Thin-Film Transistor by Functionalizing the Electrodes with Bistable Photochromic Self-Assembled Monolayers. *Advanced Materials*, **2016**, 28, 6606-11	24	50

261	Effective Work Function Reduction of Practical Electrodes Using an Organometallic Dimer. *Advanced Functional Materials*, **2016**, 26, 2493-2502	15.6	25
260	Metal nanoparticle mediated space charge and its optical control in an organic hole-only device. *Applied Physics Letters*, **2016**, 108, 153302	3.4	4
259	Polarity of pulsed laser deposited ZnO nanostructures. *Applied Physics Letters*, **2016**, 108, 083114	3.4	5
258	A comprehensive and unified picture of energy level alignment at interfaces with organic semiconductors **2016**,		3
257	All-solution-processed multilayer polymer/dendrimer light emitting diodes. *Organic Electronics*, **2016**, 35, 164-170	3.5	17
256	Epitaxial Growth of an Organic p-n Heterojunction: C60 on Single-Crystal Pentacene. *ACS Applied Materials & Interfaces*, **2016**, 8, 13499-505	9.5	40
255	Dual-Characteristic Transistors Based on Semiconducting Polymer Blends. *Advanced Electronic Materials*, **2016**, 2, 1600267	6.4	18
254	Coating of Vertically Aligned Carbon Nanotubes by a Novel Manganese Oxide Atomic Layer Deposition Process for Binder-Free Hybrid Capacitors. *Advanced Materials Interfaces*, **2016**, 3, 1600313	4.6	8
253	Charge Transfer Absorption and Emission at ZnO/Organic Interfaces. *Journal of Physical Chemistry Letters*, **2015**, 6, 500-4	6.4	32
252	Charge transfer in and conductivity of molecularly doped thiophene-based copolymers. *Journal of Polymer Science, Part B: Polymer Physics*, **2015**, 53, 58-63	2.6	34
251	Organic semiconductor/gold interface interactions: from physisorption on planar surfaces to chemical reactions with metal nanoparticles. *ChemPhysChem*, **2015**, 16, 2602-8	3.2	6
250	Tuning the Magnetic Properties of Carbon by Nitrogen Doping of Its Graphene Domains. *Journal of the American Chemical Society*, **2015**, 137, 7678-85	16.4	59
249	Efficient light emission from inorganic and organic semiconductor hybrid structures by energy-level tuning. *Nature Communications*, **2015**, 6, 6754	17.4	77
248	The Relationship between Structural and Electrical Characteristics in Perylenecarboxydiimide-Based Nanoarchitectures. *Advanced Functional Materials*, **2015**, 25, 2501-2510	15.6	24
247	Interface Dipole and Growth Mode of Partially and Fully Fluorinated Rubrene on Au(111) and Ag(111). *Journal of Physical Chemistry C*, **2015**, 119, 6769-6776	3.8	12
246	The interface electronic properties of organic photovoltaic cells. *Journal of Electron Spectroscopy and Related Phenomena*, **2015**, 204, 177-185	1.7	15
245	In-situ tuning threshold voltage of field-effect transistors based on blends of poly(3-hexylthiophene) with an insulator electret. *Applied Physics Letters*, **2015**, 107, 063301	3.4	20
244	Effect of molecular electrical doping on polyfuran based photovoltaic cells. *Applied Physics Letters*, **2015**, 106, 203301	3.4	16

243	Charge-transfer crystallites as molecular electrical dopants. *Nature Communications*, **2015**, 6, 8560	17.4	253
242	Tuning the Electronic Structure of Graphene by Molecular Dopants: Impact of the Substrate. *ACS Applied Materials & Interfaces*, **2015**, 7, 19134-44	9.5	27
241	Side chain engineering of poly-thiophene and its impact on crystalline silicon based hybrid solar cells. *Applied Physics Letters*, **2015**, 107, 203301	3.4	3
240	The Impact of Disorder on the Energy Level Alignment at Molecular Donor–Acceptor Interfaces. *Advanced Materials Interfaces*, **2015**, 2, 1500232	4.6	29
239	Energy-Level Engineering at ZnO/Oligophenylene Interfaces with Phosphonate-Based Self-Assembled Monolayers. *ACS Applied Materials & Interfaces*, **2015**, 7, 11900-7	9.5	30
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