# Antoine Kahn

## List of Publications by Year in descending order



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|---|---|---|---|
| 266 papers | 30,839 citations | 2311 98 h-index | 4628 170 g-index |
| 275 all docs | 275 docs citations | 275 times ranked | 22999 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A Universal Method to Produce Lowâ€“Work Function Electrodes for Organic Electronics. Science, 2012, 336, 327-332. | 6.0 | 1,878 |
| 2 | Transition Metal Oxides for Organic Electronics: Energetics, Device Physics and Applications. Advanced Materials, 2012, 24, 5408-5427. | 11.1 | 1,035 |
| 3 | Electronic structure and electrical properties of interfaces between metals and ?-conjugated molecular films. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 2529-2548. | 2.4 | 771 |
| 4 | Charge-separation energy in films of Ï€-conjugated organic molecules. Chemical Physics Letters, 2000, 327, 181-188. | 1.2 | 718 |
| 5 | Surface modification of indium tin oxide by plasma treatment: An effective method to improve the efficiency, brightness, and reliability of organic light emitting devices. Applied Physics Letters, 1997, 70, 1348-1350. | 1.5 | 678 |
| 6 | Electron Energetics at Surfaces and Interfaces: Concepts and Experiments. Advanced Materials, 2003, 15, 271-277. | 11.1 | 637 |
| 7 | Interface energetics in organo-metal halide perovskite-based photovoltaic cells. Energy and Environmental Science, 2014, 7, 1377. | 15.6 | 624 |
| 8 | Role of the deep-lying electronic states of MoO3 in the enhancement of hole-injection in organic thin films. Applied Physics Letters, 2009, 95, . | 1.5 | 615 |
| 9 | Fermi level, work function and vacuum level. Materials Horizons, 2016, 3, 7-10. | 6.4 | 615 |
| 10 | Energetics of metalâ€“organic interfaces: New experiments and assessment of the field. Materials Science and Engineering Reports, 2009, 64, 1-31. | 14.8 | 573 |
| 11 | Conjugated organic molecules on metal versus polymer electrodes: Demonstration of a key energy level alignment mechanism. Applied Physics Letters, 2003, 82, 70-72. | 1.5 | 481 |
| 12 | Molecular level alignment at organic semiconductor-metal interfaces. Applied Physics Letters, 1998, 73, 662-664. | 1.5 | 436 |
| 13 | The Vibrational Reorganization Energy in Pentacene:â€‰Molecular Influences on Charge Transport. Journal of the American Chemical Society, 2002, 124, 7918-7919. | 6.6 | 425 |
| 14 | Halide Perovskites: Is It All about the Interfaces?. Chemical Reviews, 2019, 119, 3349-3417. | 23.0 | 404 |
| 15 | P-type doping of organic wide band gap materials by transition metal oxides: A case-study on Molybdenum trioxide. Organic Electronics, 2009, 10, 932-938. | 1.4 | 392 |
| 16 | Hybrid Organicâ€“Inorganic Perovskites (HOIPs): Opportunities and Challenges. Advanced Materials, 2015, 27, 5102-5112. | 11.1 | 372 |
| 17 | Evidence for near-Surface NiOOH Species in Solution-Processed NiO<sub>x</sub> Selective Interlayer Materials: Impact on Energetics and the Performance of Polymer Bulk Heterojunction Photovoltaics. Chemistry of Materials, 2011, 23, 4988-5000. | 3.2 | 343 |
| 18 | Lithium doping of semiconducting organic charge transport materials. Journal of Applied Physics, 2001, 89, 4986-4992. | 1.1 | 336 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Controlled p-doping of zinc phthalocyanine by coevaporation with tetrafluorotetracyanoquinodimethane: A direct and inverse photoemission study. Applied Physics Letters, 2001, 79, 4040-4042. | 1.5 | 336 |
| 20 | Valence and Conduction Band Densities of States of Metal Halide Perovskites: A Combined Experimentalâ€“Theoretical Study. Journal of Physical Chemistry Letters, 2016, 7, 2722-2729. | 2.1 | 333 |
| 21 | MoO<sub>3</sub> Films Spinâ€Coated from a Nanoparticle Suspension for Efficient Holeâ€Injection in Organic Electronics. Advanced Materials, 2011, 23, 70-73. | 11.1 | 317 |
| 22 | Energetics of molecular interfaces. Materials Today, 2005, 8, 32-41. | 8.3 | 312 |
| 23 | Chemistry and electronic properties of metal-organic semiconductor interfaces: Al, Ti, In, Sn, Ag, and Au on PTCDA. Physical Review B, 1996, 54, 13748-13758. | 1.1 | 305 |
| 24 | Enhanced Efficiency in Plastic Solar Cells via Energy Matched Solution Processed NiO<sub>x</sub> Interlayers. Advanced Energy Materials, 2011, 1, 813-820. | 10.2 | 299 |
| 25 | Surface oxidation activates indium tin oxide for hole injection. Journal of Applied Physics, 2000, 87, 572-576. | 1.1 | 279 |
| 26 | Organic semiconductor interfaces: electronic structure and transport properties. Applied Surface Science, 2000, 166, 354-362. | 3.1 | 278 |
| 27 | Controlled p doping of the hole-transport molecular material N,Nâ€²-diphenyl-N,Nâ€²-bis(1-naphthyl)-1,1â€²-biphenyl-4,4â€²-diamine with tetrafluorotetracyanoquinodimethane. Journal of Applied Physics, 2003, 94, 359-366. | 2.1 | 266 |
| 28 | Electronic polarization at surfaces and thin films of organic molecular crystals: PTCDA. Chemical Physics Letters, 2002, 360, 47-52. | 1.2 | 261 |
| 29 | Energy level alignment at organic heterojunctions: Role of the charge neutrality level. Physical Review B, 2005, 71, . | 1.1 | 258 |
| 30 | Electronic structure and current injection in zinc phthalocyanine doped with tetrafluorotetracyanoquinodimethane: Interface versus bulk effects. Organic Electronics, 2002, 3, 53-63. | 1.4 | 252 |
| 31 | Semiconductor surface structures. Surface Science Reports, 1983, 3, 193-300. | 3.8 | 250 |
| 32 | Polarization at the gold/pentacene interface. Organic Electronics, 2005, 6, 85-91. | 1.4 | 242 |
| 33 | Spectroscopic study on sputtered PEDOTÂ·PSS: Role of surface PSS layer. Organic Electronics, 2006, 7, 387-396. | 1.4 | 233 |
| 34 | Ultralow Doping in Organic Semiconductors: Evidence of Trap Filling. Physical Review Letters, 2012, 109, 176601. | 2.9 | 231 |
| 35 | Electronic structure of Vanadium pentoxide: An efficient hole injector for organic electronic materials. Journal of Applied Physics, 2011, 110, . | 1.1 | 224 |
| 36 | Sensitization of silicon by singlet exciton fission in tetracene. Nature, 2019, 571, 90-94. | 13.7 | 221 |

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| 37 | Dipole formation at metal/PTCDA interfaces: Role of the Charge Neutrality Level. Europhysics Letters, 2004, 65, 802-808. | 0.7 | 216 |
| 38 | Inverted Organic Solar Cells with Solâ€“Gel Processed High Workâ€Function Vanadium Oxide Holeâ€Extraction Layers. Advanced Functional Materials, 2011, 21, 4776-4783. | 7.8 | 213 |
| 39 | Direct determination of the electronic structure of the poly(3-hexylthiophene):phenyl-[6,6]-C61 butyric acid methyl ester blend. Organic Electronics, 2010, 11, 1779-1785. | 1.4 | 211 |
| 40 | Molecules on Si: Electronics with Chemistry. Advanced Materials, 2010, 22, 140-159. | 11.1 | 207 |
| 41 | Mechanistic Study on the Solution-Phase n-Doping of 1,3-Dimethyl-2-aryl-2,3-dihydro-1‹i›H‹/i›-benzoimidazole Derivatives. Journal of the American Chemical Society, 2013, 135, 15018-15025. | 6.6 | 202 |
| 42 | Pairing of near-ultraviolet solar cells with electrochromic windows for smart management of the solar spectrum. Nature Energy, 2017, 2, . | 19.8 | 195 |
| 43 | Hole-blocking titanium-oxide/silicon heterojunction and its application to photovoltaics. Applied Physics Letters, 2013, 102, . | 1.5 | 183 |
| 44 | Energy level offset at organic semiconductor heterojunctions. Journal of Applied Physics, 1998, 83, 2649-2655. | 1.1 | 180 |
| 45 | Impact of electrode contamination on the Î±-NPD/Au hole injection barrier. Organic Electronics, 2005, 6, 47-54. | 1.4 | 180 |
| 46 | Effect of contamination on the electronic structure and hole-injection properties of MoO3/organic semiconductor interfaces. Applied Physics Letters, 2010, 96, . | 1.5 | 175 |
| 47 | Electronic Level Alignment in Inverted Organometal Perovskite Solar Cells. Advanced Materials Interfaces, 2015, 2, 1400532. | 1.9 | 174 |
| 48 | Dynamic Scaling, Island Size Distribution, and Morphology in the Aggregation Regime of Submonolayer Pentacene Films. Physical Review Letters, 2003, 91, 136102. | 2.9 | 172 |
| 49 | Barrier formation at metalâ€“organic interfaces: dipole formation and the charge neutrality level. Applied Surface Science, 2004, 234, 107-112. | 3.1 | 172 |
| 50 | Charge generation layers comprising transition metal-oxide/organic interfaces: Electronic structure and charge generation mechanism. Applied Physics Letters, 2010, 96, . | 1.5 | 171 |
| 51 | Dynamical analysis of low-energy electron diffraction intensities from GaAs(110)-p(1Ã—1)-Sb(1 ML). Physical Review B, 1982, 26, 803-814. | 1.1 | 170 |
| 52 | Photovoltaic efficiency limits and material disorder. Energy and Environmental Science, 2012, 5, 6022. | 15.6 | 166 |
| 53 | Photoemission spectroscopy investigation of magnesiumâ€“Alq3 interfaces. Journal of Applied Physics, 1998, 84, 355-358. | 1.1 | 165 |
| 54 | Mixed-Halide Perovskites with Stabilized Bandgaps. Nano Letters, 2017, 17, 6863-6869. | 4.5 | 165 |

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| 55 | nâ€Doping of Organic Electronic Materials using Airâ€Stable Organometallics. Advanced Materials, 2012, 24, 699-703. | 11.1 | 163 |
| 56 | Electron Affinities of 1,1-Diaryl-2,3,4,5-tetraphenylsiloles:Â Direct Measurements and Comparison with Experimental and Theoretical Estimates. Journal of the American Chemical Society, 2005, 127, 9021-9029. | 6.6 | 155 |
| 57 | Energy level alignment at interfaces of organic semiconductor heterostructures. Journal of Applied Physics, 1998, 84, 5583-5586. | 1.1 | 153 |
| 58 | Correlation betweenEFpinning and development of metallic character in Ag overlayers on GaAs(110). Physical Review Letters, 1988, 60, 440-443. | 2.9 | 151 |
| 59 | Organic semiconductor heterointerfaces containing bathocuproine. Journal of Applied Physics, 1999, 86, 4515-4519. | 1.1 | 151 |
| 60 | Impact of an interface dipole layer on molecular level alignment at an organic-conductor interface studied by ultraviolet photoemission spectroscopy. Physical Review B, 2004, 70, . | 1.1 | 151 |
| 61 | High-Work-Function Molybdenum Oxide Hole Extraction Contacts in Hybrid Organicâ€“Inorganic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 31491-31499. | 4.0 | 151 |
| 62 | Combined photoemission/in vacuo transport study of the indium tin oxide/copper phthalocyanine/N,Nâ€²-diphenyl-N,Nâ€²-bis(l-naphthyl)-1,1â€²biphenyl-4,4â€³diamine molecular organic semiconductor system. Journal of Applied Physics, 1999, 86, 2116-2122. | 1.1 | 150 |
| 63 | The Role of Transition Metal Oxides in Chargeâ€Generation Layers for Stacked Organic Lightâ€Emitting Diodes. Advanced Functional Materials, 2010, 20, 1762-1766. | 7.8 | 150 |
| 64 | Metal-dependent charge transfer and chemical interaction at interfaces between 3,4,9,10-perylenetetracarboxylic bisimidazole and gold, silver and magnesium. Organic Electronics, 2000, 1, 5-13. | 1.4 | 149 |
| 65 | Chemical and electrical properties of interfaces between magnesium and aluminum and tris-(8-hydroxy) Tj ETQq1 1 0.784314 rgBT /Ov | 1.1 | 147 |
| 66 | Low-temperature, solution-processed molybdenum oxide hole-collection layer for organic photovoltaics. Journal of Materials Chemistry, 2012, 22, 3249. | 6.7 | 147 |
| 67 | Direct Determination of the Hole Density of States in Undoped and Doped Amorphous Organic Films with High Lateral Resolution. Physical Review Letters, 2005, 95, 256405. | 2.9 | 146 |
| 68 | Hydrogen passivation of germanium (100) surface using wet chemical preparation. Applied Physics Letters, 2005, 87, 253101. | 1.5 | 143 |
| 69 | Beating the thermodynamic limit with photo-activation of n-doping in organic semiconductors. Nature Materials, 2017, 16, 1209-1215. | 13.3 | 139 |
| 70 | Dynamical calculation of low-energy electron diffraction intensities from GaAs(110): Influence of boundary conditions, exchange potential, lattice vibrations, and multilayer reconstructions. Physical Review B, 1979, 19, 5194-5205. | 1.1 | 138 |
| 71 | Electron-hole interaction energy in the organic molecular semiconductor PTCDA. Chemical Physics Letters, 1997, 272, 43-47. | 1.2 | 137 |
| 72 | Induced Density of States model for weakly-interacting organic semiconductor interfaces. Organic Electronics, 2007, 8, 241-248. | 1.4 | 135 |

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| 73 | Energy level alignment in PCDTBT:PC70BM solar cells: Solution processed NiOx for improved hole collection and efficiency. Organic Electronics, 2012, 13, 744-749. | 1.4 | 135 |
| 74 | Chemistry, diffusion, and electronic properties of a metal/organic semiconductor contact: In/perylenetetracarboxylic dianhydride. Applied Physics Letters, 1996, 68, 217-219. | 1.5 | 133 |
| 75 | Occupied and unoccupied electronic levels in organic Ï€-conjugated molecules: comparison between experiment and theory. Chemical Physics Letters, 2000, 317, 444-450. | 1.2 | 130 |
| 76 | High-resolution synchrotron-radiation core-level spectroscopy of decapped GaAs(100) surfaces. Physical Review B, 1991, 43, 14301-14304. | 1.1 | 126 |
| 77 | Molecular n-Type Doping of 1,4,5,8-Naphthalene Tetracarboxylic Dianhydride by Pyroninâ€‰B Studied Using Direct and Inverse Photoelectron Spectroscopies. Advanced Functional Materials, 2006, 16, 831-837. | 7.8 | 126 |
| 78 | How Do Electronic Carriers Cross Si-Bound Alkyl Monolayers?. Physical Review Letters, 2005, 95, 266807. | 2.9 | 124 |
| 79 | Photoelectron Spectroscopic Study of the Electronic Band Structure of Polyfluorene and Fluorene-Arylamine Copolymers at Interfaces. Journal of Physical Chemistry C, 2007, 111, 1378-1384. | 1.5 | 124 |
| 80 | What is the Barrier for Tunneling Through Alkyl Monolayers? Results from n- and p-Siâ€“Alkyl/Hg Junctions. Advanced Materials, 2007, 19, 445-450. | 11.1 | 122 |
| 81 | Titanium dioxide/silicon hole-blocking selective contact to enable double-heterojunction crystalline silicon-based solar cell. Applied Physics Letters, 2015, 106, . | 1.5 | 121 |
| 82 | GaN (0001)-(1Ã—1) surfaces: Composition and electronic properties. Journal of Applied Physics, 1998, 83, 4249-4252. | 1.1 | 120 |
| 83 | The Influence of Film Morphology in Highâ€Mobility Smallâ€Molecule:Polymer Blend Organic Transistors. Advanced Functional Materials, 2010, 20, 2330-2337. | 7.8 | 120 |
| 84 | Revisiting the Valence and Conduction Band Size Dependence of PbS Quantum Dot Thin Films. ACS Nano, 2016, 10, 3302-3311. | 7.3 | 118 |
| 85 | Interplay between morphology, structure, and electronic properties at diindenoperylene-gold interfaces. Physical Review B, 2003, 68, . | 1.1 | 116 |
| 86 | Gap states in Pentacene Thin Film Induced by Inert Gas Exposure. Physical Review Letters, 2013, 110, 267602. | 2.9 | 114 |
| 87 | Band alignment at organic-inorganic semiconductor interfaces: Î±-NPD and CuPc on InP(110). Journal of Applied Physics, 1999, 85, 6589-6592. | 1.1 | 113 |
| 88 | Improving charge injection in organic thin-film transistors with thiol-based self-assembled monolayers. Organic Electronics, 2008, 9, 419-424. | 1.4 | 112 |
| 89 | Interfacial charge-transfer doping of metal halide perovskites for high performance photovoltaics. Energy and Environmental Science, 2019, 12, 3063-3073. | 15.6 | 111 |
| 90 | Electronic structure, diffusion, andp-doping at the Au/F16CuPc interface. Journal of Applied Physics, 2001, 90, 4549-4554. | 1.1 | 109 |

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| 91 | Modification of gold source and drain electrodes by self-assembled monolayer in staggered n- and p-channel organic thin film transistors. Organic Electronics, 2010, 11, 227-237. | 1.4 | 108 |
| 92 | The Influence of Steps on the Orientation of Copper Phthalocyanine Monolayers on Au(111). Langmuir, 2000, 16, 4358-4361. | 1.6 | 107 |
| 93 | Energy-level alignment at interfaces between metals and the organic semiconductor 4,4â€²-N,Nâ€²-dicarbazolyl-biphenyl. Journal of Applied Physics, 1998, 84, 3236-3241. | 1.1 | 106 |
| 94 | Electronic states and effective negative electron affinity at cesiated p-GaN surfaces. Journal of Applied Physics, 1999, 86, 3209-3212. | 1.1 | 104 |
| 95 | Electronic structure of Si(111)-bound alkyl monolayers: Theory and experiment. Physical Review B, 2006, 74, . | 1.1 | 103 |
| 96 | The origin of low water vapor transmission rates through Al2O3/ZrO2 nanolaminate gas-diffusion barriers grown by atomic layer deposition. Applied Physics Letters, 2010, 96, . | 1.5 | 103 |
| 97 | Stability of inverted organic solar cells with ZnO contact layers deposited from precursor solutions. Energy and Environmental Science, 2015, 8, 592-601. | 15.6 | 103 |
| 98 | Photoinduced Hole Transfer Becomes Suppressed with Diminished Driving Force in Polymerâ€Fullerene Solar Cells While Electron Transfer Remains Active. Advanced Functional Materials, 2013, 23, 1238-1249. | 7.8 | 101 |
| 99 | Organic molecular films on gold versus conducting polymer: Influence of injection barrier height and morphology on currentâ€“voltage characteristics. Applied Physics Letters, 2003, 82, 2281-2283. | 1.5 | 96 |
| 100 | Air-Exposure-Induced Gas-Molecule Incorporation into Spiro-MeOTAD Films. Journal of Physical Chemistry Letters, 2014, 5, 1374-1379. | 2.1 | 96 |
| 101 | Decamethylcobaltocene as an efficient n-dopant in organic electronic materials and devices. Organic Electronics, 2008, 9, 575-581. | 1.4 | 95 |
| 102 | Phosphine Oxide Derivatives as Hosts for Blue Phosphors: A Joint Theoretical and Experimental Study of Their Electronic Structure. Chemistry of Materials, 2010, 22, 247-254. | 3.2 | 95 |
| 103 | N-type doping of an electron-transport material by controlled gas-phase incorporation of cobaltocene. Chemical Physics Letters, 2006, 431, 67-71. | 1.2 | 94 |
| 104 | Electronic structure of the CsPbBr3/polytriarylamine (PTAA) system. Journal of Applied Physics, 2017, 121, . | 1.1 | 93 |
| 105 | Use of a High Electron-Affinity Molybdenum Dithiolene Complex to p-Dope Hole-Transport Layers. Journal of the American Chemical Society, 2009, 131, 12530-12531. | 6.6 | 91 |
| 106 | Synthesis, Ionisation Potentials and Electron Affinities of Hexaazatrinaphthylene Derivatives. Chemistry - A European Journal, 2007, 13, 3537-3547. | 1.7 | 88 |
| 107 | Correlation between interface energetics and open circuit voltage in organic photovoltaic cells. Applied Physics Letters, 2012, 101, 233301. | 1.5 | 88 |
| 108 | Solution doping of organic semiconductors using air-stable n-dopants. Applied Physics Letters, 2012, 100, . | 1.5 | 86 |

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| 109 | Transparent stacked organic light emitting devices. I. Design principles and transparent compound electrodes. Journal of Applied Physics, 1999, 86, 4067-4075. | 1.1 | 82 |
| 110 | Doping-induced realignment of molecular levels at organicâ€“organic heterojunctions. Chemical Physics, 2006, 325, 129-137. | 0.9 | 81 |
| 111 | Elucidating the Role of a Tetrafluoroborateâ€Based Ionic Liquid at the nâ€Type Oxide/Perovskite Interface. Advanced Energy Materials, 2020, 10, 1903231. | 10.2 | 81 |
| 112 | The role of interface states in controlling the electronic structure of Alq3/reactive metal contacts. Organic Electronics, 2001, 2, 89-95. | 1.4 | 79 |
| 113 | Effect of electrical doping on molecular level alignment at organicâ€“organic heterojunctions. Applied Physics Letters, 2003, 82, 4815-4817. | 1.5 | 79 |
| 114 | Enhanced Chargeâ€Carrier Injection and Collection Via Lamination of Doped Polymer Layers pâ€Doped with a Solutionâ€Processible Molybdenum Complex. Advanced Functional Materials, 2014, 24, 2197-2204. | 7.8 | 77 |
| 115 | Chemically Controlled Reversible and Irreversible Extraction Barriers Via Stable Interface Modification of Zinc Oxide Electron Collection Layer in Polycarbazoleâ€based Organic Solar Cells. Advanced Functional Materials, 2014, 24, 4671-4680. | 7.8 | 76 |
| 116 | Characterization of the Valence and Conduction Band Levels of n = 1 2D Perovskites: A Combined Experimental and Theoretical Investigation. Advanced Energy Materials, 2018, 8, 1703468. | 10.2 | 76 |
| 117 | Band lineup at an organicâ€inorganic semiconductor heterointerface: perylenetetracarboxylic dianhydride/GaAs(100). Applied Physics Letters, 1994, 64, 3482-3484. | 1.5 | 74 |
| 118 | Device Characteristics of Bulk-Heterojunction Polymer Solar Cells are Independent of Interfacial Segregation of Active Layers. Chemistry of Materials, 2011, 23, 2020-2023. | 3.2 | 71 |
| 119 | What Limits the Open-Circuit Voltage of Bromide Perovskite-Based Solar Cells?. ACS Energy Letters, 2019, 4, 1-7. | 8.8 | 71 |
| 120 | Low-Temperature Synthesis of a TiO<sub>2</sub>/Si Heterojunction. Journal of the American Chemical Society, 2015, 137, 14842-14845. | 6.6 | 70 |
| 121 | ZnSeâ€“ and Seâ€“GaAs interfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1985, 3, 922-925. | 0.9 | 69 |
| 122 | Electrical doping: the impact on interfaces ofÂ-conjugated molecular films. Journal of Physics Condensed Matter, 2003, 15, S2757-S2770. | 0.7 | 67 |
| 123 | Energy Level and Band Alignment for GaAsâˆ'Alkylthiol Monolayerâˆ'Hg Junctions from Electrical Transport and Photoemission Experiments. Journal of Physical Chemistry B, 2006, 110, 14363-14371. | 1.2 | 66 |
| 124 | Electronic states at aluminum nitride (0001)-1Ã—1 surfaces. Applied Physics Letters, 1999, 74, 546-548. | 1.5 | 65 |
| 125 | A Molybdenum Dithiolene Complex asp-Dopant for Hole-Transport Materials: A Multitechnique Experimental and Theoretical Investigation. Chemistry of Materials, 2010, 22, 524-531. | 3.2 | 65 |
| 126 | Passivation of trap states in unpurified and purified C60 and the influence on organic field-effect transistor performance. Applied Physics Letters, 2012, 101, . | 1.5 | 65 |

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| 127 | NiO<sub>X</sub>/MoO<sub>3</sub> Biâ€Layers as Efficient Hole Extraction Contacts in Organic Solar Cells. Advanced Functional Materials, 2014, 24, 701-706. | 7.8 | 65 |
| 128 | Organometallic Chemistry at the Magnesiumâ^' Tris(8-hydroxyquinolino)aluminum Interface. Journal of the American Chemical Society, 2000, 122, 5391-5392. | 6.6 | 62 |
| 129 | Physisorption-like Interaction at the Interfaces Formed by Pentacene and Samarium. Journal of Physical Chemistry B, 2002, 106, 4192-4196. | 1.2 | 60 |
| 130 | Molecular-Level Offset at the PTCDA/Alq3 Heterojunction. Advanced Materials, 1998, 10, 140-144. | 11.1 | 59 |
| 131 | Charge transfer at n-doped organic-organic heterojunctions. Journal of Applied Physics, 2009, 105, . | 1.1 | 57 |
| 132 | Dopant controlled trap-filling and conductivity enhancement in an electron-transport polymer. Applied Physics Letters, 2015, 106, . | 1.5 | 57 |
| 133 | Hg/Molecular Monolayerâ^'Si Junctions: Electrical Interplay between Monolayer Properties and Semiconductor Doping Density. Journal of Physical Chemistry C, 2010, 114, 10270-10279. | 1.5 | 56 |
| 134 | Investigation of the High Electron Affinity Molecular Dopant F6â€TCNNQ for Holeâ€Transport Materials. Advanced Functional Materials, 2018, 28, 1703780. | 7.8 | 56 |
| 135 | Halogenation of a Nonplanar Molecular Semiconductor to Tune Energy Levels and Bandgaps for Electron Transport. Chemistry of Materials, 2015, 27, 1892-1900. | 3.2 | 55 |
| 136 | Tailoring Electronâ€Transfer Barriers for Zinc Oxide/C<sub>60</sub> Fullerene Interfaces. Advanced Functional Materials, 2014, 24, 7381-7389. | 7.8 | 54 |
| 137 | Determination of Energy Level Alignment within an Energy Cascade Organic Solar Cell. Chemistry of Materials, 2016, 28, 794-801. | 3.2 | 54 |
| 138 | Role of metalâ€“molecule chemistry and interdiffusion on the electrical properties of an organic interface: The Alâ€“F16CuPc case. Journal of Applied Physics, 2001, 90, 6236-6242. | 1.1 | 51 |
| 139 | Charge transport across metal/molecular (alkyl) monolayer-Si junctions is dominated by the LUMO level. Physical Review B, 2012, 85, . | 1.1 | 51 |
| 140 | Structure determination for the (110) surface of zincblende structure compound semiconductors. Journal of Vacuum Science and Technology, 1979, 16, 1252-1257. | 1.9 | 48 |
| 141 | Oriented Growth of Al<sub>2</sub>O<sub>3</sub>:ZnO Nanolaminates for Use as Electronâ€Selective Electrodes in Inverted Polymer Solar Cells. Advanced Functional Materials, 2012, 22, 1531-1538. | 7.8 | 47 |
| 142 | Synchrotron-radiation-induced surface photovoltage on GaAs studied by contact-potential-difference measurements. Physical Review B, 1990, 42, 3228-3230. | 1.1 | 46 |
| 143 | Filled and empty states of alkanethiol monolayer on Au (111): Fermi level asymmetry and implications for electron transport. Chemical Physics Letters, 2011, 511, 344-347. | 1.2 | 46 |
| 144 | N-doping of pentacene by decamethylcobaltocene. Applied Physics A: Materials Science and Processing, 2009, 95, 7-13. | 1.1 | 45 |

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| 145 | Ordered, quasiepitaxial growth of an organic thin film on Seâ€passivated GaAs(100). Applied Physics Letters, 1995, 66, 944-946. | 1.5 | 44 |
| 146 | Electronic structure of the poly(3-hexylthiophene):indene-C60 bisadduct bulk heterojunction. Journal of Applied Physics, 2011, 110, 043719. | 1.1 | 44 |
| 147 | Electronic Current Transport through Molecular Monolayers: Comparison between Hg/Alkoxy and Alkyl Monolayer/Si(100) Junctions. Advanced Materials, 2008, 20, 3931-3936. | 11.1 | 43 |
| 148 | Investigation of p-dopant diffusion in polymer films and bulk heterojunctions: Stable spatially-confined doping for all-solution processed solar cells. Organic Electronics, 2015, 23, 151-157. | 1.4 | 42 |
| 149 | The atomic geometries of GaP(110) and ZnS(110) revisited: A structural ambiguity and its resolution. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1984, 2, 515-518. | 0.9 | 41 |
| 150 | Fluorenyl-substituted silole molecules: geometric, electronic, optical, and device properties. Journal of Materials Chemistry, 2008, 18, 3157. | 6.7 | 41 |
| 151 | Influence of chemical doping on the performance of organic photovoltaic cells. Applied Physics Letters, 2009, 94, 203306. | 1.5 | 41 |
| 152 | Silicon surface passivation by an organic overlayer of 9,10-phenanthrenequinone. Applied Physics Letters, 2010, 96, 222109. | 1.5 | 40 |
| 153 | Electronic Structure and Dynamics at Organic Donor/Acceptor Interfaces. MRS Bulletin, 2010, 35, 443-448. | 1.7 | 40 |
| 154 | Quantifying the Extent of Contact Doping at the Interface between High Work Function Electrical Contacts and Poly(3-hexylthiophene) (P3HT). Journal of Physical Chemistry Letters, 2015, 6, 1303-1309. | 2.1 | 40 |
| 155 | Adduct-based p-doping of organic semiconductors. Nature Materials, 2021, 20, 1248-1254. | 13.3 | 40 |
| 156 | Surface order and stoichiometry of sputterâ€cleaned and annealed CuInSe2. Journal of Applied Physics, 1985, 57, 2967-2969. | 1.1 | 39 |
| 157 | Ultrasensitive Heterojunctions of Graphene and 2D Perovskites Reveal Spontaneous Iodide Loss. Joule, 2018, 2, 2133-2144. | 11.7 | 39 |
| 158 | Self-passivated copper gates for amorphous silicon thin-film transistors. IEEE Electron Device Letters, 1997, 18, 388-390. | 2.2 | 38 |
| 159 | Isolated molecular dopants in pentacene observed by scanning tunneling microscopy. Physical Review B, 2009, 80, . | 1.1 | 38 |
| 160 | The formation of polymer-dopant aggregates as a possible origin of limited doping efficiency at high dopant concentration. Organic Electronics, 2018, 53, 135-140. | 1.4 | 38 |
| 161 | Enhancement of electron injection into a light-emitting polymer from an aluminum oxide cathode modified by a self-assembled monolayer. Applied Physics Letters, 2008, 93, . | 1.5 | 37 |
| 162 | Incorporation of cobaltocene as an n-dopant in organic molecular films. Journal of Applied Physics, 2007, 102, 014906. | 1.1 | 36 |

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