

Max Shtein

List of Publications by Year in descending order

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75
papers

5,386
citations

186265

28
h-index

106344

65
g-index

76
all docs

76
docs citations

76
times ranked

7647
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of film morphology and gate dielectric surface preparation on the electrical characteristics of organic-vapor-phase-deposited pentacene thin-film transistors. Applied Physics Letters, 2002, 81, 268-270.	3.3	653
2	Structure and Electronic Properties of Solid Acids Based on Tungsten Oxide Nanostructures. Journal of Physical Chemistry B, 1999, 103, 630-640.	2.6	627
3	Controlled growth of a molecular bulk heterojunction photovoltaic cell. Nature Materials, 2005, 4, 37-41.	27.5	519
4	A kirigami approach to engineering elasticity in nanocomposites through patterned defects. Nature Materials, 2015, 14, 785-789.	27.5	509
5	An electric-eel-inspired soft power source from stacked hydrogels. Nature, 2017, 552, 214-218.	27.8	364
6	Dynamic kirigami structures for integrated solar tracking. Nature Communications, 2015, 6, 8092.	12.8	297
7	Fiber-based flexible thermoelectric power generator. Journal of Power Sources, 2008, 175, 909-913.	7.8	202
8	Transparent and conductive electrodes based on unpatterned, thin metal films. Applied Physics Letters, 2008, 93, .	3.3	182
9	Flexible conjugated polymer photovoltaic cells with controlled heterojunctions fabricated using nanoimprint lithography. Applied Physics Letters, 2007, 90, 123113.	3.3	167
10	Layer-by-Layer Assembled Films of Cellulose Nanowires with Antireflective Properties. Langmuir, 2007, 23, 7901-7906.	3.5	165
11	Fiber based organic photovoltaic devices. Applied Physics Letters, 2008, 92, .	3.3	136
12	Fiber Shaped Light Emitting Device. Advanced Materials, 2007, 19, 3897-3900.	21.0	134
13	Nanolithography based on patterned metal transfer and its application to organic electronic devices. Applied Physics Letters, 2002, 80, 4051-4053.	3.3	129
14	Material transport regimes and mechanisms for growth of molecular organic thin films using low-pressure organic vapor phase deposition. Journal of Applied Physics, 2001, 89, 1470-1476.	2.5	112
15	Grain-boundary-limited charge transport in solution-processed 6,13 bis(tri-isopropylsilylethynyl) pentacene thin film transistors. Journal of Applied Physics, 2008, 103, .	2.5	106
16	Controlled solution deposition and systematic study of charge-transport anisotropy in single crystal and single-crystal textured TIPS pentacene thin films. Organic Electronics, 2009, 10, 696-703.	2.6	102
17	Morphology control and material mixing by high-temperature organic vapor-phase deposition and its application to thin-film solar cells. Journal of Applied Physics, 2005, 98, 014906.	2.5	98
18	Micropatterning of small molecular weight organic semiconductor thin films using organic vapor phase deposition. Journal of Applied Physics, 2003, 93, 4005-4016.	2.5	74

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19	Enhanced optical field intensity distribution in organic photovoltaic devices using external coatings. <i>Applied Physics Letters</i> , 2006, 89, 233502.	3.3	66
20	Thermal and mechanical cracking in bis(triisopropylsilylethynyl) pentacene thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 3631-3641.	2.1	58
21	Organic photodetector with spectral response tunable across the visible spectrum by means of internal optical microcavity. <i>Organic Electronics</i> , 2009, 10, 1152-1157.	2.6	52
22	Origins of thermal boundary conductance of interfaces involving organic semiconductors. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	41
23	Ultrafast Charge-Transfer Dynamics at the Boron Subphthalocyanine Chloride/C ₆₀ Heterojunction: Comparison between Experiment and Theory. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 569-575.	4.6	41
24	Universal Design Principles for Cascade Heterojunction Solar Cells with High Fill Factors and Internal Quantum Efficiencies Approaching 100%. <i>Advanced Energy Materials</i> , 2014, 4, 1400216.	19.5	35
25	Direct mask-free patterning of molecular organic semiconductors using organic vapor jet printing. <i>Journal of Applied Physics</i> , 2004, 96, 4500-4507.	2.5	34
26	High-Strength, Metalized Fibers for Conformal Load Bearing Antenna Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2011, 59, 3458-3462.	5.1	30
27	Local Optoelectronic Characterization of Solvent-Annealed, Lead-Free, Bismuth-Based Perovskite Films. <i>Langmuir</i> , 2018, 34, 7647-7654.	3.5	30
28	Surface plasmon mediated energy transfer of electrically-pumped excitons. <i>Optics Express</i> , 2010, 18, 4041.	3.4	28
29	An all-conjugated gradient copolymer approach for morphological control of polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20174-20184.	10.3	28
30	Direct patterning of organic light-emitting devices by organic-vapor jet printing. <i>Applied Physics Letters</i> , 2005, 86, 113504.	3.3	27
31	Stable and efficient electrophosphorescent organic light-emitting devices grown by organic vapor phase deposition. <i>Applied Physics Letters</i> , 2005, 86, 021107.	3.3	25
32	Thin-Film Growth and Patterning Techniques for Small Molecular Organic Compounds Used in Optoelectronic Device Applications. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2013, 4, 289-317.	6.8	18
33	Improving thermoelectric efficiency in organic-metal nanocomposites via extra-low thermal boundary conductance. <i>Journal of Applied Physics</i> , 2013, 114, 194303.	2.5	18
34	Origami Solar-Tracking Concentrator Array for Planar Photovoltaics. <i>ACS Photonics</i> , 2016, 3, 2134-2140.	6.6	18
35	High-efficiency broadband solar cell architectures based on arrays of volumetrically distributed narrowband photovoltaic fibers. <i>Optics Express</i> , 2010, 18, A432.	3.4	16
36	Localized Current Injection and Submicron Organic Light-Emitting Device on a Pyramidal Atomic Force Microscopy Tip. <i>Nano Letters</i> , 2007, 7, 3645-3649.	9.1	14

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37	Solvent-free, direct printing of organic semiconductors in atmosphere. Applied Physics Letters, 2010, 96, 263301.	3.3	14
38	Broadband Plasmonic Photocurrent Enhancement in Planar Organic Photovoltaics Embedded in a Metallic Nanocavity. Advanced Energy Materials, 2014, 4, 1301937.	19.5	14
39	Developable Rotationally Symmetric Kirigami-Based Structures as Sensor Platforms. Advanced Materials Technologies, 2019, 4, 1900563.	5.8	13
40	Scanning optical probe microscopy with submicrometer resolution using an organic photodetector. Applied Physics Letters, 2008, 93, 033311.	3.3	12
41	Spatial nonuniformity in heat transport across hybrid material interfaces. Physical Review B, 2014, 90, .	3.2	12
42	Chemical Vapor Jet Deposition of Parylene Polymer Films in Air. Macromolecules, 2015, 48, 5550-5556.	4.8	12
43	Printing of small molecular medicines from the vapor phase. Nature Communications, 2017, 8, 711.	12.8	12
44	Organic light-emitting device on a scanning probe cantilever. Applied Physics Letters, 2006, 89, 111117.	3.3	11
45	Kirigami-Based Compliant Mechanism for Multiaxis Optical Tracking and Energy Harvesting Applications. Advanced Engineering Materials, 2021, 23, 2001079.	3.5	11
46	27.4: Modeling and Fabrication of Organic Vapor Phase Deposition (OVPD) Equipment for OLED Display Manufacturing. Digest of Technical Papers SID International Symposium, 2002, 33, 894.	0.3	10
47	Heterodyne-detected and ultrafast time-resolved second-harmonic generation for sensitive measurements of charge transfer. Optics Letters, 2014, 39, 4274.	3.3	10
48	Reduction of open circuit voltage loss in a polymer photovoltaic cell via interfacial molecular design: Insertion of a molecular spacer. Applied Physics Letters, 2013, 103, .	3.3	9
49	Effect of crystal density on sublimation properties of molecular organic semiconductors. Organic Electronics, 2013, 14, 94-99.	2.6	9
50	Simulation of Crystalline and Amorphous Copper Phthalocyanine: Force Field Development and Analysis of Thermal Transport Mechanisms. Journal of Physical Chemistry C, 2014, 118, 9861-9870.	3.1	9
51	Electrohydrodynamic Jet Printing of 1D Photonic Crystals: Part II—Optical Design and Reflectance Characteristics. Advanced Materials Technologies, 2020, 5, 2000431.	5.8	9
52	Guard flow-enhanced organic vapor jet printing of photovoltaic donor materials in air. Organic Electronics, 2012, 13, 2905-2909.	2.6	7
53	Fast Organic Vapor Phase Deposition of Thin Films in Light-Emitting Diodes. ACS Nano, 2020, 14, 14157-14163.	14.6	7
54	Ag-Organic Layered Samples for Optoelectronic Applications: Interface Width and Roughening Using a 500 eV Cs ⁺ Probe in Dynamic Secondary Ion Mass Spectrometry. Analytical Chemistry, 2013, 85, 381-388.	6.5	6

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55	Coherent Control of GHz Resonant Modes by an Integrated Acoustic Etalon. <i>Physical Review Letters</i> , 2013, 110, 086109.	7.8	6
56	Electrohydrodynamic Jet Printing of Oneâ€Dimensional Photonic Crystals: Part Iâ€An Empirical Model for Multiâ€Material Multiâ€Layer Fabrication. <i>Advanced Materials Technologies</i> , 2020, 5, 2000386.	5.8	6
57	Multifunctional composite kirigami skins for aerodynamic control. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	5
58	Spatial Mapping of Morphology and Electronic Properties of Airâ€Printed Pentacene Thin Films. <i>Advanced Functional Materials</i> , 2014, 24, 3907-3916.	14.9	4
59	Organic Vapor-Phase Deposition. , 2009, , 27-57.		4
60	Effects of substrate topography on current injection and light emission properties of organic light emitting devices. <i>Organic Electronics</i> , 2014, 15, 3529-3537.	2.6	3
61	Reinforcement Learning Enabled Autonomous Manufacturing Using Transfer Learning and Probabilistic Reward Modeling. , 2023, 7, 508-513.		3
62	Influence of exciton lifetime on charge carrier dynamics in an organic heterostructure. <i>Applied Physics Letters</i> , 2013, 102, 113304.	3.3	2
63	Self-powered ion detectors based on dye-sensitized photovoltaics. <i>Nanoscale</i> , 2014, 6, 11019-11023.	5.6	2
64	An EEL-Inspired Artificial Electric Organ: 110 Volts from Water and Salt. <i>Biophysical Journal</i> , 2018, 114, 192a.	0.5	2
65	Conjugated Polymer-Based Flexible Photovoltaic Cells with Controlled Nanostructures. <i>Materials Research Society Symposia Proceedings</i> , 2006, 974, 1.	0.1	1
66	Gas-Assisted Cocrystal Desublimation. <i>Crystal Growth and Design</i> , 2022, 22, 1528-1532.	3.0	1
67	Cantilevers with integrated organic LEDs for scanning probe microscopy. , 2007, 6470, 179.		0
68	Response to â€Comment on â€Enhanced optical field intensity distribution in organic photovoltaics using external coatingsâ€™â€[Appl. Phys. Lett. 91, 266103 (2007)]. <i>Applied Physics Letters</i> , 2007, 91, 266104.	3.3	0
69	MOCVD-Grown InGaN nanowires for photovoltaic applications. , 2014, , .		0
70	Organic Electronics: Spatial Mapping of Morphology and Electronic Properties of Air-Printed Pentacene Thin Films (<i>Adv. Funct. Mater.</i> 25/2014). <i>Advanced Functional Materials</i> , 2014, 24, 3906-3906.	14.9	0
71	Flat-plate photovoltaics with solar-tracking origami micro-concentrator arrays. , 2015, , .		0
72	An Electric Eel-Inspired Origami-Enabled Battery that Generates 100 V. <i>Biophysical Journal</i> , 2017, 112, 592a.	0.5	0

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73	OLEDs on fibers and AFM cantilevers. , 2008, , .		0
74	Scanning probe optical microscopy using an integrated submicron organic photodetector. , 2008, , .		0
75	Flat-Plate Photovoltaics with Solar-Tracking Origami Micro-Concentrator Arrays. , 2015, , .		0