

Rafi Shikler

List of Publications by Year in descending order

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56
papers

1,523
citations

257101

24
h-index

315357

38
g-index

60
all docs

60
docs citations

60
times ranked

1962
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation between Surface Photovoltage and Blend Morphology in Polyfluorene-Based Photodiodes. <i>Nano Letters</i> , 2005, 5, 559-563.	4.5	169
2	Polycyclooctadiene Complexes of Rhodium(I): Direct Access to Organometallic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5767-5770.	7.2	81
3	Potential imaging of operating light-emitting devices using Kelvin force microscopy. <i>Applied Physics Letters</i> , 1999, 74, 2972-2974.	1.5	79
4	Tuneable light-emitting carbon-dot/polymer flexible films prepared through one-pot synthesis. <i>Nanoscale</i> , 2016, 8, 3400-3406.	2.8	79
5	Kelvin probe force microscopy on III-V semiconductors: the effect of surface defects on the local work function. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 102, 138-142.	1.7	73
6	Fluorescent Self-Healing Carbon Dot/Polymer Gels. <i>ACS Nano</i> , 2019, 13, 1433-1442.	7.3	73
7	Resolution of Kelvin probe force microscopy in ultrahigh vacuum: comparison of experiment and simulation. <i>Applied Surface Science</i> , 2003, 210, 32-36.	3.1	64
8	Two-dimensional surface band structure of operating light emitting devices. <i>Journal of Applied Physics</i> , 1999, 86, 107-113.	1.1	48
9	Direct measurement of minority carriers diffusion length using Kelvin probe force microscopy. <i>Applied Physics Letters</i> , 1999, 75, 2435-2437.	1.5	47
10	Enhancement of intra- and inter-molecular π -conjugated effects for a non-fullerene acceptor to achieve high-efficiency organic solar cells with an extended photoresponse range and optimized morphology. <i>Materials Chemistry Frontiers</i> , 2018, 2, 2006-2012.	3.2	46
11	Measuring minority-carrier diffusion length using a Kelvin probe force microscope. <i>Physical Review B</i> , 2000, 61, 11041-11046.	1.1	45
12	Photovoltaic Performance and Morphology of Polyfluorene Blends: The Influence of Phase Separation Evolution. <i>Macromolecules</i> , 2006, 39, 5393-5399.	2.2	42
13	On-Off Mechano-responsive Switching of ESIPT Luminescence in Polymorphic <i>N</i> -Salicylidene-4-amino-2-methylbenzotriazole. <i>Crystal Growth and Design</i> , 2017, 17, 5517-5523.	1.4	39
14	AIE/ACQ Effects in Two DR/NIR Emitters: A Structural and DFT Comparative Analysis. <i>Molecules</i> , 2018, 23, 1947.	1.7	37
15	Mono-, Di-, and Polymeric Pyridino- λ -hydrazone Zn(II) Complexes: Structure and Photoluminescent Properties. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 818-825.	1.0	34
16	Photophysical Properties of Luminescent Zinc(II)-Pyridinyloxadiazole Complexes and their Glassy Self-Assembly Networks. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2709-2716.	1.0	33
17	Series of <i>O</i> , <i>N</i> , <i>O</i> -Tridentate Ligands Zinc(II) Complexes with High Solid State Photoluminescence Quantum Yield. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2695-2703.	1.0	31
18	High Solid State Photoluminescence Quantum Yields and Effective Color Tuning in Polyvinylpyridine Based Zinc(II) Metallopolymers. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1516-1522.	1.1	31

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19	Color Tuning and Noteworthy Photoluminescence Quantum Yields in Crystalline Mono- and Dinuclear Zn ^{II} Complexes. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5916-5924.	1.0	30
20	Highly efficient dicyano-phenylenevinylene fluorophore as polymer dopant or zinc-driven self-assembling building block. <i>Inorganic Chemistry Communication</i> , 2019, 104, 145-149.	1.8	30
21	From cadmium(II)-aroylhydrazone complexes to metallopolymers with enhanced photoluminescence. A structural and DFT study. <i>Inorganica Chimica Acta</i> , 2017, 458, 129-137.	1.2	29
22	Solid-State Highly Efficient DR Mono and Poly-dicyano-phenylenevinylene Fluorophores. <i>Molecules</i> , 2018, 23, 1505.	1.7	28
23	The Effect of Bulky Substituents on Two π -Conjugated Mesogenic Fluorophores. Their Organic Polymers and Zinc-Bridged Luminescent Networks. <i>Polymers</i> , 2019, 11, 1379.	2.0	26
24	A symmetrical azo-based fluorophore and the derived salen multipurpose framework for emissive layers. <i>Inorganic Chemistry Communication</i> , 2019, 104, 186-189.	1.8	26
25	A non-fullerene acceptor enables efficient P3HT-based organic solar cells with small voltage loss and thickness insensitivity. <i>Chinese Chemical Letters</i> , 2019, 30, 1277-1281.	4.8	26
26	Scanning probe microscopy of well-defined periodically poled ferroelectric domain structure. <i>Applied Physics Letters</i> , 2002, 80, 1806-1808.	1.5	22
27	Optimizing the Organic Solar Cell Manufacturing Process by Means of AFM Measurements and Neural Networks. <i>Energies</i> , 2018, 11, 1221.	1.6	21
28	Benzodifuroxazinones, a new class of heteroacene molecules for possible applications in organic electronics: Synthesis, electronic properties and crystal structure. <i>Dyes and Pigments</i> , 2012, 95, 116-125.	2.0	19
29	Microscopic surface photovoltage spectroscopy. <i>Applied Physics Letters</i> , 2002, 80, 2586-2588.	1.5	17
30	Organic solar cells defects detection by means of an elliptical basis neural network and a new feature extraction technique. <i>Optik</i> , 2019, 194, 163038.	1.4	14
31	Sensitive enzymatic determination of neurotransmitters in artificial sweat. <i>Biosensors and Bioelectronics</i> , 2022, 210, 114264.	5.3	14
32	Spectroscopic Behaviour of Two Novel Azobenzene Fluorescent Dyes and Their Polymeric Blends. <i>Molecules</i> , 2020, 25, 1368.	1.7	13
33	In-depth investigation and applications of novel silicon photonics microstructures supporting optical vorticity and waveguiding for ultra-narrowband near-infrared perfect absorption. <i>Photonics Research</i> , 2020, 8, 381.	3.4	13
34	Spatial correlation of ionized donors and its effect on scattering time and spin splitting in a two-dimensional electron gas. <i>Physical Review B</i> , 1997, 55, 15427-15430.	1.1	12
35	Organic solar cells defects classification by using a new feature extraction algorithm and an EBNN with an innovative pruning algorithm. <i>International Journal of Intelligent Systems</i> , 2021, 36, 2443-2464.	3.3	12
36	Broadband absorption enhancement via light trapping in periodically patterned polymeric solar cells. <i>Journal of Applied Physics</i> , 2013, 114, 013102.	1.1	10

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37	Low work function Ca doped graphene as a transparent cathode for organic opto-electronics and OLEDs. Carbon, 2020, 157, 255-261.	5.4	10
38	High photoconductive gain in a GaAs/PbS heterojunction based SWIR detector. Applied Physics Letters, 2020, 117, .	1.5	10
39	Relating transient electroluminescence lifetime and bulk transit time in OLED during switch-off. Journal of Materials Chemistry C, 2021, 9, 719-726.	2.7	10
40	Microscopic Investigation of Degradation Processes in a Polyfluorene Blend by Near-Field Scanning Optical Microscopy. Macromolecules, 2016, 49, 6439-6444.	2.2	9
41	Modeling the effect of the structure of polymer photocells on their absorption spectrum. Journal of Applied Physics, 2007, 102, 013105.	1.1	8
42	New Approach for Analyzing the Vertical Structure of Polymer Thin Films Based on Surface-Enhanced Raman Scattering. Macromolecules, 2012, 45, 1476-1482.	2.2	6
43	A new model of organic solar cells reveals open circuit conditions and size dependent power loss induced by the finite conductivity of a transparent contact. Journal of Applied Physics, 2017, 121, .	1.1	6
44	Electrical and optical characterization of extended SWIR detectors based on thin films of nano-columnar PbSe. Infrared Physics and Technology, 2019, 96, 89-97.	1.3	6
45	Photo-Electro Characterization and Modeling of Organic Light-Emitting Diodes by Using a Radial Basis Neural Network. Lecture Notes in Computer Science, 2017, , 378-389.	1.0	6
46	Kelvin probe force microscopy using near-field optical tips. Applied Surface Science, 2000, 157, 256-262.	3.1	5
47	Characterisation and Modeling of Organic Solar Cells by Using Radial Basis Neural Networks. Lecture Notes in Computer Science, 2016, , 91-103.	1.0	5
48	The role of CdS doping in improving SWIR photovoltaic and photoconductive responses in solution grown CdS/PbS heterojunctions. Nanotechnology, 2020, 31, 255502.	1.3	4
49	Comprehensive study of the influence of different environments on degradation processes in F8BT: Correlating optoelectronic properties with Raman measurements. Journal of Applied Physics, 2013, 114, 164506.	1.1	3
50	The influence of the internal interface energy barrier and the device dimensions on the transient electroluminescence lifetime of bi-layer OLEDs. Journal of Materials Chemistry C, 2022, 10, 7141-7146.	2.7	3
51	Pentacene organic thin-film transistor based on Archimedean interdigitated spiral pattern. Microelectronic Engineering, 2021, 247, 111590.	1.1	2
52	Combining SVD and Co-occurrence Matrix Information to Recognize Organic Solar Cells Defects with a Elliptical Basis Function Network Classifier. Lecture Notes in Computer Science, 2017, , 518-532.	1.0	2
53	Near-field surface photovoltage. Applied Physics Letters, 2000, 77, 836-838.	1.5	1
54	Role of the Dielectric Nature of the Transparent Contact in Charge Injection and Collection in Organic Optoelectronic Devices. Physical Review Applied, 2019, 12, .	1.5	1

#	ARTICLE	IF	CITATIONS
55	Metal-grid modeling and optimizations for organic solar cells. Solar Energy Materials and Solar Cells, 2021, 230, 111212.	3.0	1
56	Exploiting OSC Models by Using Neural Networks with an Innovative Pruning Algorithm. Lecture Notes in Computer Science, 2018, , 711-722.	1.0	1