

Ayse Turak

List of Publications by Year in descending order

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73
papers

1,479
citations

331670

21
h-index

330143

37
g-index

74
all docs

74
docs citations

74
times ranked

2110
citing authors

#	ARTICLE	IF	CITATIONS
1	An acetone gas sensor based on nanosized Pt-loaded Fe ₂ O ₃ nanocubes. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 59-67.	7.8	172
2	Interfacial degradation in organic optoelectronics. <i>RSC Advances</i> , 2013, 3, 6188.	3.6	107
3	Copper-phthalocyanine based metal-organic interfaces: The effect of fluorination, the substrate, and its symmetry. <i>Journal of Chemical Physics</i> , 2010, 133, 214703.	3.0	103
4	Chemical structure of Al/LiF/Alq interfaces in organic light-emitting diodes. <i>Applied Physics Letters</i> , 2002, 81, 3173-3175.	3.3	82
5	Poisoning of Heterogeneous, Late Transition Metal Dehydrocoupling Catalysts by Boranes and Other Group 13 Hydrides. <i>Journal of the American Chemical Society</i> , 2005, 127, 5116-5124.	13.7	82
6	Antiviral nanoparticles for sanitizing surfaces: A roadmap to self-sterilizing against COVID-19. <i>Nano Today</i> , 2021, 40, 101267.	11.9	68
7	Mesoporous Ternary Nitrides of Earth-Abundant Metals as Oxygen Evolution Electrocatalyst. <i>Nano-Micro Letters</i> , 2020, 12, 79.	27.0	63
8	Three-Dimensional Mesoporous Phosphide-Spinel Oxide Heterojunctions with Dual Function as Catalysts for Overall Water Splitting. <i>ACS Applied Energy Materials</i> , 2020, 3, 1684-1693.	5.1	43
9	Metal/AlQ ₃ interface structures. <i>Applied Physics Letters</i> , 2002, 81, 766-768.	3.3	39
10	Enhanced photoelectrochemical water splitting efficiency of hematite (α-Fe ₂ O ₃)-Based photoelectrode by the introduction of maghemite (γ-Fe ₂ O ₃) nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 410, 113179.	3.9	37
11	Solution-Processed LiF for Work Function Tuning in Electrode Bilayers. <i>Nano Letters</i> , 2012, 12, 39-44.	9.1	34
12	Station-keeping of a high-altitude balloon with electric propulsion and wireless power transmission: A concept study. <i>Acta Astronautica</i> , 2016, 128, 616-627.	3.2	33
13	Reverse Micelle Templating Route to Ordered Monodispersed Spherical Organo-Lead Halide Perovskite Nanoparticles for Light Emission. <i>ACS Applied Nano Materials</i> , 2019, 2, 4121-4132.	5.0	32
14	Synergistic oxidation of CVD graphene on Cu by oxygen plasma etching. <i>Carbon</i> , 2017, 125, 500-508.	10.3	31
15	Enhanced thermal stability in organic light-emitting diodes through nanocomposite buffer layers at the anode/organic interface. <i>Journal of Applied Physics</i> , 2007, 101, 033522.	2.5	30
16	Solution processed LiF anode modification for polymer solar cells. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	27
17	Experimental Relation between Stranski-Krastanov Growth of $\text{DIP/F}_{16}\text{CoPc}$ Heterostructures and the Reconstruction of the Organic Interface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4234-4239.	3.1	26
18	Supramolecular Environment-Dependent Electronic Properties of Metal-Organic Interfaces.. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4780-4785.	3.1	25

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19	Probing the multi-step crystallization dynamics of micelle templated nanoparticles: structural evolution of single crystalline Fe_3O_4 . <i>Nanoscale</i> , 2019, 11, 9076-9084.	5.6	25
20	Improved hole injection for blue phosphorescent organic light-emitting diodes using solution deposited tin oxide nano-particles decorated ITO anodes. <i>Scientific Reports</i> , 2019, 9, 2411.	3.3	24
21	Organic light-emitting devices with silicon anodes. <i>Journal of Applied Physics</i> , 2005, 97, 086107.	2.5	23
22	Transfer printing gold nanoparticle arrays by tuning the surface hydrophilicity of thermo-responsive poly N-isopropylacrylamide (pNIPAAm). <i>Nanoscale</i> , 2017, 9, 2969-2973.	5.6	22
23	Work function tuning of tin-doped indium oxide electrodes with solution-processed lithium fluoride. <i>Thin Solid Films</i> , 2014, 559, 58-63.	1.8	21
24	On the Role of LiF in Organic Optoelectronics. <i>Electronic Materials</i> , 2021, 2, 198-221.	1.9	21
25	New Insight into the Role of the Interfacial Molecular Structure on Growth and Scaling in Organic Heterostructures. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13752-13758.	3.1	20
26	Oxygen Coordination on Fe-N-C to Boost Oxygen Reduction Catalysis. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 517-524.	4.6	20
27	Oxidized impurity in transition metal nitride for improving the hydrogen evolution efficiency of transition metal nitride-based catalyst. <i>Applied Materials Today</i> , 2020, 18, 100476.	4.3	19
28	Interfacial Staining of a Phase-Separated Block Copolymer with Ruthenium Tetroxide. <i>Macromolecules</i> , 2007, 40, 1594-1597.	4.8	16
29	Tungsten-Nitride-Coated Carbon Nanospheres as a Sulfur Host for High-Performance Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , 2019, 6, 2074-2079.	3.4	16
30	Structural evolution and electromechanical properties of SrTiO ₃ -modified Bi _{0.5} Na _{0.5} TiO ₃ -BaTiO ₃ ceramics prepared by sol-gel and hydrothermal methods. <i>Materials Chemistry and Physics</i> , 2021, 266, 124529.	4.0	16
31	Passivation effect of Al-LiF electrode on C60 diodes. <i>Applied Physics Letters</i> , 2005, 86, 033107.	3.3	15
32	Controlled Fabrication of Polypyrrole Surfaces with Overhang Structures by Colloidal Templating. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16507-16517.	8.0	15
33	Strain-effect for controlled growth mode and well-ordered structure of quaternary thin films. <i>Journal of Chemical Physics</i> , 2010, 133, 034706.	3.0	14
34	disLocate: tools to rapidly quantify local intermolecular structure to assess two-dimensional order in self-assembled systems. <i>Scientific Reports</i> , 2018, 8, 1554.	3.3	14
35	Transition Metal-Catalyzed Dissociation of Phosphine-Gallane Adducts: Isolation of Mechanistic Model Complexes and Heterogeneous Catalyst Poisoning Studies. <i>Inorganic Chemistry</i> , 2007, 46, 7394-7402.	4.0	11
36	Nanoreactors or nanoscale stabilizers: routes for solution processed indium tin oxide nanoparticles by reverse micelle deposition. <i>Canadian Journal of Physics</i> , 2014, 92, 797-801.	1.1	11

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37	Effect of post-annealing on the plasma etching of graphene-coated-copper. Faraday Discussions, 2014, 173, 79-93.	3.2	10
38	Oxidation of LiF-Coated Metal Surfaces. Journal of the Electrochemical Society, 2007, 154, H691.	2.9	9
39	LiF Doping of C ₆₀ Studied with X-ray Photoemission Shake-Up Analysis. ECS Journal of Solid State Science and Technology, 2017, 6, M3116-M3121.	1.8	9
40	Systematic analysis of processing parameters on the ordering and performance of working poly(3-hexyl-thiophene):[6,6]-phenyl C61-butyric acid methyl ester solar cells. Journal of Renewable and Sustainable Energy, 2010, 2, 053103.	2.0	8
41	Necessity of submonolayer LiF anode interlayers for improved device performance in blue phosphorescent OLEDs. Journal of Materials Science: Materials in Electronics, 2021, 32, 1161-1177.	2.2	8
42	Enhanced Stokes Shift and Phase Stability by Cosynthesizing Perovskite Nanoparticles (MAPbI ₃ /MAPbBr ₃) in a Single Solution. Advanced Photonics Research, 2022, 3, .	3.6	6
43	High Efficiency Blue Organic Light Emitting Devices doped by BCzVBi in Hole and Electron Transport Layer. Materials Research Society Symposia Proceedings, 2013, 1567, 1.	0.1	5
44	Role of hydration and micellar shielding in tuning the structure of single crystalline iron oxide nanoparticles for designer applications. Nano Select, 2021, 2, 2419-2431.	3.7	5
45	Nanoscale Engineering of Exciton Dissociating Interfaces in Organic Photovoltaics. Journal of Nano Research, 0, 14, 125-136.	0.8	5
46	Nanoscale Engineering of Exciton Dissociating Interfaces in Organic Photovoltaics. Journal of Nano Research, 2011, 14, 123-134.	0.8	4
47	Doping and Theory: general discussion. Faraday Discussions, 2014, 173, 233-256.	3.2	4
48	Color stable white phosphorescent organic light emitting diodes with red emissive electron transport layer. Journal of Applied Physics, 2015, 117, .	2.5	4
49	Statistical Paradigm for Organic Optoelectronic Devices: Normal Force Testing for Adhesion of Organic Photovoltaics and Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2017, 9, 13347-13356.	8.0	4
50	Universal Transfer Printing of Micelle-Templated Nanoparticles Using Plasma-Functionalized Graphene. ACS Applied Materials & Interfaces, 2020, 12, 46530-46538.	8.0	4
51	Molecular heterojunction morphology on rough substrate surfaces: component separation by Fourier subtraction. Nanotechnology, 2010, 21, 285705.	2.6	3
52	Dewetting Stability of ITO Surfaces in Organic Optoelectronic Devices. , 0, , .		3
53	Device stability in organic optoelectronics. , 2019, , 599-662.		3
54	Utility of far-field effects from tip-assisted Raman spectroscopy for the detection of a monolayer of diblock copolymer reverse micelles for nanolithography. Physical Chemistry Chemical Physics, 2021, 23, 11065-11074.	2.8	3

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55	Study of p-Type Co-Host System in Single Emissive White Phosphorescent Organic Light-Emitting Devices Using Glass and Flexible Substrate. <i>Science of Advanced Materials</i> , 2016, 8, 1634-1640.	0.7	3
56	Island size effects in organic optoelectronic devices. , 2010, , .		2
57	Stabilization methods for small molecule dewetting on indium tin oxide substrates for organic photovoltaics. , 2013, , .		2
58	Organic photovoltaics and energy: general discussion. <i>Faraday Discussions</i> , 2014, 174, 341-355.	3.2	2
59	Synthesis in gas and liquid phase: general discussion. <i>Faraday Discussions</i> , 2014, 173, 115-135.	3.2	2
60	Steric self-assembly of laterally confined organic semiconductor molecule analogues. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20228.	2.8	2
61	Reproducing morphologies of disorderly self-assembling planar molecules with static and dynamic simulation methods by matching density. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 471, 301-314.	2.6	2
62	LiF Nanoparticles Enhance Targeted Degradation of Organic Material under Low Dose X-ray Irradiation. <i>Radiation</i> , 2021, 1, 131-144.	1.4	2
63	Tunable Etching of CVD Graphene for Transfer Printing of Nanoparticles Driven by Desorption of Contaminants with Low Temperature Annealing. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 093006.	1.8	2
64	Anionic exchange route to synthesize highly uniform, stable and luminescent MAPBr nanoparticles. , 2020, , .		2
65	Studies of Alq/Mg: Ag Interface in Organic Light-Emitting Diodes by XPS. <i>Materials Research Society Symposia Proceedings</i> , 2002, 725, 1.	0.1	1
66	Energy storage and piezoelectric properties of lead-free SrTiO ₃ -modified 0.965Bi _{0.5} Na _{0.5} TiO ₃ –0.035BaTiO ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10712-10725.	2.2	1
67	Interfacial Structure Modifying Interlayers Equalize Substrate Performance: The Case of PEDOT:PSS. <i>Science of Advanced Materials</i> , 2016, 8, 414-420.	0.7	1
68	Functionalisation, separation and solvation: general discussion. <i>Faraday Discussions</i> , 2014, 173, 337-349.	3.2	0
69	A 3D-printed Chamber for Organic Optoelectronic Device Degradation Testing. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	0
70	Modified Tip-enhanced Raman spectroscopy to detect a monolayer of Reverse Micelles. , 2020, , .		0
71	Phase changes in PS-b-P2VP reverse micelles by pressurized CO ₂ for nanostructure deposition. , 2020, , .		0
72	Substrate-assisted Transfer of Nanoparticles by Graphene on Metal-Organic Interfaces. , 2020, , .		0

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73	Effect of various red phosphorescent dopants in single emissive white phosphorescent organic light-emitting devices. Chinese Optics Letters, 2017, 15, 051602-51606.	2.9	0