SeÃ§kin AkÄ±n

List of Publications by Year
in descending order

55 papers	3,736 citations	159585 30 h-index	168389 53 g-index
57 all docs	57 docs citations	57 times ranked	3925 citing authors

#	Article	IF	Citations
1	Is machine learning redefining the perovskite solar cells?. Journal of Energy Chemistry, 2022, 66, 74-90.	12.9	27
2	Quinary Nanocrystalâ€Based Passivation Strategy for High Efficiency and Stable Perovskite Photovoltaics. Solar Rrl, 2022, 6, 2100737.	5.8	17
3	Interface modification to achieve high-efficiency and stable perovskite solar cells. Chemical Engineering Journal, 2022, 433, 134613.	12.7	30
4	Recent Progress of Light Intensityâ€Modulated Small Perturbation Techniques in Perovskite Solar Cells. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	6
5	Realizing Highâ€Efficiency Perovskite Solar Cells by Passivating Tripleâ€Cation Perovskite Films. Solar Rrl, 2022, 6, .	5.8	9
6	Atomic Layer Engineering of Aluminumâ€Doped Zinc Oxide Films for Efficient and Stable Perovskite Solar Cells. Advanced Materials Interfaces, 2022, 9, .	3.7	16
7	Investigation on the Facet-Dependent Anisotropy in Halide Perovskite Single Crystals. Journal of Physical Chemistry C, 2022, 126, 8906-8912.	3.1	7
8	Efficient and Lessâ€Toxic Indiumâ€Doped MAPbI₃ Perovskite Solar Cells Prepared by Metal Alloying Technique. Solar Rrl, 2022, 6, .	5.8	6
9	SnO2 Elektron Transfer TabakasÄ±nÄ±n Slot-Die TekniÄŸi ile Ãœretimi ve Optimizasyonu. International Journal of Innovative Engineering Applications, 2022, 6, 170-182.	0.4	1
10	Poly(<i>N</i>,<i>N</i>â€²â€bisâ€4â€butylphenylâ€<i>N</i>,<i>N</i>â€²â€bisphenyl)benzidineâ€Based Interfacial Passivation Strategy Promoting Efficiency and Operational Stability of Perovskite Solar Cells in Regular Architecture. Advanced Materials, 2021, 33, e2006087.	21.0	128
11	Moistureâ€Resistant FAPbI₃ Perovskite Solar Cell with 22.25â€‰% Power Conversion Efficiency through Pentafluorobenzyl Phosphonic Acid Passivation. ChemSusChem, 2021, 14, 1176-1183.	6.8	101
12	Metal oxide electron transport materials for perovskite solar cells: a review. Environmental Chemistry Letters, 2021, 19, 2185-2207.	16.2	98
13	Efficient and Stable Perovskite Solar Cells Enabled by Dicarboxylic Acid-Supported Perovskite Crystallization. Journal of Physical Chemistry Letters, 2021, 12, 997-1004.	4.6	69
14	Organic Ammonium Halide Modulators as Effective Strategy for Enhanced Perovskite Photovoltaic Performance. Advanced Science, 2021, 8, 2004593.	11.2	57
15	The Role of Pioneering Hole Transporting Materials in New Generation Perovskite Solar Cells. European Journal of Inorganic Chemistry, 2021, 2021, 4251-4264.	2.0	5
16	Copolymerâ€Templated Nickel Oxide for Highâ€Efficiency Mesoscopic Perovskite Solar Cells in Inverted Architecture. Advanced Functional Materials, 2021, 31, 2102237.	14.9	51
17	Dopant Engineering for Spiroâ€OMeTAD Holeâ€Transporting Materials towards Efficient Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2102124.	14.9	67
18	Composition engineering of operationally stable CsPbI2Br perovskite solar cells with a record efficiency over 17%. Nano Energy, 2021, 87, 106157.	16.0	115

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19	High-performance perovskite solar cells using the graphene quantum dotâ€“modified SnO2/ZnO photoelectrode. Materials Today Energy, 2021, 22, 100853.	4.7	37
20	Future perspectives of perovskite solar cells: Metal oxide-based inorganic hole-transporting materials. , 2021, , 181-219.		5
21	Effect of bromine doping on the charge transfer, ion migration and stability of the single crystalline MAPb(Br_{<i>x</i>}I_{1â^’<i>x</i>})₃ photodetector. Journal of Materials Chemistry C, 2021, 9, 15189-15200.	5.5	23
22	New Strategies for Defect Passivation in Highâ€Efficiency Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1903090.	19.5	237
23	Minimizing the Trade-Off between Photocurrent and Photovoltage in Triple-Cation Mixed-Halide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 10188-10195.	4.6	36
24	Stabilization of Highly Efficient and Stable Phaseâ€Pure FAPbI₃ Perovskite Solar Cells by Molecularly Tailored 2Dâ€Overlayers. Angewandte Chemie - International Edition, 2020, 59, 15688-15694.	13.8	201
25	Stabilization of Highly Efficient and Stable Phaseâ€Pure FAPbI₃ Perovskite Solar Cells by Molecularly Tailored 2Dâ€Overlayers. Angewandte Chemie, 2020, 132, 15818-15824.	2.0	17
26	FAPbI₃â€Based Perovskite Solar Cells Employing Hexylâ€Based Ionic Liquid with an Efficiency Over 20% and Excellent Longâ€Term Stability. Advanced Functional Materials, 2020, 30, 2002964.	14.9	172
27	Highly efficient, stable and hysteresisâ€less planar perovskite solar cell based on chemical bath treated Zn2SnO4 electron transport layer. Nano Energy, 2020, 75, 105038.	16.0	77
28	Cyclopentadithiophene-Based Hole-Transporting Material for Highly Stable Perovskite Solar Cells with Stabilized Efficiencies Approaching 21%. ACS Applied Energy Materials, 2020, 3, 7456-7463.	5.1	26
29	Boosting the efficiency and stability of perovskite solar cells through facile molecular engineering approaches. Solar Energy, 2020, 199, 136-142.	6.1	33
30	Suppression of the interface-dependent nonradiative recombination by using 2-methylbenzimidazole as interlayer for highly efficient and stable perovskite solar cells. Nano Energy, 2020, 76, 105127.	16.0	76
31	Hysteresis-Free Planar Perovskite Solar Cells with a Breakthrough Efficiency of 22% and Superior Operational Stability over 2000 h. ACS Applied Materials & Interfaces, 2019, 11, 39998-40005.	8.0	86
32	Lowâ€Cost and Highly Efficient Carbonâ€Based Perovskite Solar Cells Exhibiting Excellent Longâ€Term Operational and UV Stability. Small, 2019, 15, e1904746.	10.0	83
33	Inorganic CuFeO₂ Delafossite Nanoparticles as Effective Hole Transport Materials for Highly Efficient and Long-Term Stable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 45142-45149.	8.0	53
34	Ultrahydrophobic 3D/2D fluoroarene bilayer-based water-resistant perovskite solar cells with efficiencies exceeding 22%. Science Advances, 2019, 5, eaaw2543.	10.3	524
35	Power output stabilizing feature in perovskite solar cells at operating condition: Selective contact-dependent charge recombination dynamics. Nano Energy, 2019, 61, 126-131.	16.0	35
36	Cesium lead based inorganic perovskite quantum-dots as interfacial layer for highly stable perovskite solar cells with exceeding 21% efficiency. Nano Energy, 2019, 60, 557-566.	16.0	121

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37	Siteâ€selective Synthesis of Î²â€[70]PCBMâ€like Fullerenes: Efficient Application in Perovskite Solar Cells. Chemistry - A European Journal, 2019, 25, 3224-3228.	3.3	37
38	Europium-Doped CsPbI2Br for Stable and Highly Efficient Inorganic Perovskite Solar Cells. Joule, 2019, 3, 205-214.	24.0	387
39	Insight into Interface Engineering at TiO2/Dye through Molecularly Functionalized Caf1 Biopolymer. ACS Sustainable Chemistry and Engineering, 2018, 6, 1825-1836.	6.7	14
40	Hydrothermally processed CuCrO₂ nanoparticles as an inorganic hole transporting material for low-cost perovskite solar cells with superior stability. Journal of Materials Chemistry A, 2018, 6, 20327-20337.	10.3	85
41	Metal Oxide Nanoparticles as Electron Transport Layer for Highly Efficient Dye-Sensitized Solar Cells. , 2018, , 39-79.		12
42	Novel p-dopant toward highly efficient and stable perovskite solar cells. Energy and Environmental Science, 2018, 11, 2985-2992.	30.8	216
43	Highly efficient tandem photoelectrochemical solar cells using coumarin6 dye-sensitized CuCrO2 delafossite oxide as photocathode. Solar Energy, 2018, 169, 196-205.	6.1	30
44	Enhancing the electron transfer and band potential tuning with long-term stability of ZnO based dye-sensitized solar cells by gallium and tellurium as dual-doping. Electrochimica Acta, 2017, 225, 243-254.	5.2	32
45	An Effective Approach for Highâ€Efficiency Photoelectrochemical Solar Cells by Using Bifunctional DNA Molecules Modified Photoanode. Advanced Functional Materials, 2016, 26, 8776-8783.	14.9	35
46	Modification of photoelectrode with thiol-functionalized Calix[4]arenes as interface energy barrier for high efficiency in dye-sensitized solar cells. Journal of Power Sources, 2016, 307, 796-805.	7.8	52
47	Impact of Copper-Doped Titanium Dioxide Interfacial Layers on the Interface-State and Electrical Properties of Si-based MOS Devices. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4150-4159.	2.2	5
48	Improvement in electrical performance of half-metallic Fe₃O₄/GaAs structures using pyrolyzed polymer film as buffer layer. Philosophical Magazine, 2014, 94, 2678-2691.	1.6	9
49	Improvement of physical properties of CdO thin films by Auâ€“Ag nanocluster codoping. Journal of Alloys and Compounds, 2013, 579, 272-278.	5.5	33
50	Current transport mechanism of antimony-doped TiO2 nanoparticles based on MOS device. Sensors and Actuators A: Physical, 2013, 199, 18-23.	4.1	20
51	Polyaniline micro-rods based heterojunction solar cell: Structural and photovoltaic properties. Applied Physics Letters, 2012, 101, 253301.	3.3	29
52	High-efficiency dye-sensitized solar cells using ferrocene-based electrolytes and natural photosensitizers. Journal Physics D: Applied Physics, 2012, 45, 425101.	2.8	60
53	High performance GaAs metal-insulatorâ€“semiconductor devices using TiO2 as insulator layer. Current Applied Physics, 2012, 12, 1372-1377.	2.4	24
54	YÃ¼ksek Verimli ve Uzun DÃ¶nem KararlÄ± Perovskit GÃ¼neÅŸ HÃ¼crelerinin Ãœretimi iÃ§in Perovskit/Spiro-OMeTAD ArayÃ¼zeyinin Thiol MolekÃ¼lleri ile Modifikasyonu. European Journal of Science and Technology, 0, , 727-735.	0.5	0

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55	BilyalÄ± Ã–ÄŸÃ¼tÃ¼cÃ¼ ile Ãœretilen Ekonomik Fe@Ni AlaÅŸÄ±mlarÄ±n Boya DuyarlÄ± GÃ¼neÅŸ HÃ¼crelerinde KarÅŸÄ±t Elektrot Potansiyelinin AraÅŸtÄ±rÄ±lmasÄ±. El-Cezeri Journal of Science and Engineering, 0, , .	0.1	0