

# Arramel Arramel

## List of Publications by Year in descending order

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61  
papers

1,535  
citations

393982

19  
h-index

315357

38  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2310  
citing authors

#	ARTICLE	IF	CITATIONS
1	Supramolecular Assemblies on Surfaces: Nanopatterning, Functionality, and Reactivity. ACS Nano, 2018, 12, 7445-7481.	7.3	225
2	Inorganic, Organic, and Perovskite Halides with Nanotechnology for High-Resolution Light Yield X- and $\gamma$ -ray Scintillators. Crystals, 2019, 9, 88.	1.0	150
3	MXenes: An Emerging Platform for Wearable Electronics and Looking Beyond. Matter, 2021, 4, 377-407.	5.0	125
4	Lithium-doped two-dimensional perovskite scintillator for wide-range radiation detection. Communications Materials, 2020, 1, .	2.9	88
5	Superior Performance of Silver Bismuth Iodide Photovoltaics Fabricated via Dynamic Hot-Casting Method under Ambient Conditions. Advanced Energy Materials, 2018, 8, 1802051.	10.2	84
6	Single-Metal Atoms Supported on MBenes for Robust Electrochemical Hydrogen Evolution. ACS Applied Materials & Interfaces, 2020, 12, 9261-9267.	4.0	70
7	Performance Improvement by Ozone Treatment of 2D PdSe <sub>2</sub> . ACS Nano, 2020, 14, 5668-5677.	7.3	54
8	Reversible Hydrogenation and Bandgap Opening of Graphene and Graphite Surfaces Probed by Scanning Tunneling Spectroscopy. Small, 2012, 8, 1607-1613.	5.2	53
9	Oxygen-induced controllable p-type doping in 2D semiconductor transition metal dichalcogenides. Nano Research, 2020, 13, 3439-3444.	5.8	47
10	Effect of commensurate lithium doping on the scintillation of two-dimensional perovskite crystals. Journal of Materials Chemistry C, 2021, 9, 2504-2512.	2.7	46
11	Core-shell hybrid zeolitic imidazolate framework-derived hierarchical carbon for capacitive deionization. Journal of Materials Chemistry A, 2020, 8, 14653-14660.	5.2	41
12	Intercalation engineering of MXenes towards highly efficient photo(electrocatalytic) hydrogen evolution reactions. Journal of Materials Chemistry A, 2021, 9, 24195-24214.	5.2	41
13	Reliable and selective lead-ion sensor of sulfur-doped graphitic carbon nitride nanoflakes. Applied Surface Science, 2020, 506, 144672.	3.1	37
14	Highly Sensitive and Selective Gas Sensor Using Heteroatom Doping Graphdiyne: A DFT Study. Advanced Electronic Materials, 2021, 7, 2001244.	2.6	37
15	Reversible light induced conductance switching of asymmetric diarylethenes on gold: surface and electronic studies. Nanoscale, 2013, 5, 9277.	2.8	36
16	Diverse Structures and Magnetic Properties in Nonlayered Monolayer Chromium Selenide. Journal of Physical Chemistry Letters, 2021, 12, 7752-7760.	2.1	28
17	Selective self-assembly of 2,3-diaminophenazine molecules on MoSe <sub>2</sub> mirror twin boundaries. Nature Communications, 2019, 10, 2847.	5.8	26
18	Built-in electric field-assisted step-scheme heterojunction of carbon nitride-copper oxide for highly selective electrochemical detection of p-nonylphenol. Electrochimica Acta, 2020, 354, 136658.	2.6	26

#	ARTICLE	IF	CITATIONS
19	Atomic-Level Electronic Properties of Carbon Nitride Monolayers. ACS Nano, 2020, 14, 14008-14016.	7.3	22
20	Magnetodielectric coupling by exchange striction in Y <sub>2</sub> Cu <sub>2</sub> O <sub>5</sub> . European Physical Journal B, 2009, 71, 393-399.	0.6	20
21	Molecular Alignment and Electronic Structure of <i>N,N</i> -Dibutyl-3,4,9,10-perylene-tetracarboxylic-diimide Molecules on MoS <sub>2</sub> Surfaces. ACS Applied Materials & Interfaces, 2017, 9, 5566-5573.	4.0	19
22	Band Gap Opening of Graphene by Noncovalent $\pi$ - $\pi$ Interaction with Porphyrins. Graphene, 2013, 02, 102-108.	0.3	18
23	Optical and x-ray scintillation properties of X <sub>2</sub> MnCl <sub>4</sub> (X = PEA, PPA) perovskite crystals. Journal Physics D: Applied Physics, 2020, 53, 455303.	1.3	17
24	Surface molecular doping of all-inorganic perovskite using zethrenes molecules. Nano Research, 2019, 12, 77-84.	5.8	16
25	Atomic-Scale Superlubricity in Ti <sub>2</sub> CO <sub>2</sub> @MoS <sub>2</sub> Layered Heterojunctions Interface: A First Principles Calculation Study. ACS Omega, 2021, 6, 9013-9019.	1.6	16
26	Precise Layer-Dependent Electronic Structure of MBE-Grown PtSe <sub>2</sub> . Advanced Electronic Materials, 2021, 7, 2100559.	2.6	16
27	BA <sub>2</sub> XBr <sub>4</sub> (X = Pb, Cu, Sn): from lead to lead-free halide perovskite scintillators. Materials Advances, 2022, 3, 5087-5095.	2.6	16
28	Double Transition Metal Carbides MXenes (D-MXenes) as Promising Electrocatalysts for Hydrogen Reduction Reaction: <i>Ab Initio</i> Calculations. ACS Omega, 2021, 6, 23676-23682.	1.6	14
29	Electronic Modulation in Site-Selective Occupation of Quasi-2D Triangular-Lattice Cs <sub>2</sub> CuCl <sub>4</sub> <sup>x</sup> Br <sub>x</sub> Perovskite Probed by Surface-Sensitive Characterization. ACS Applied Materials & Interfaces, 2020, 12, 4114-4122.	4.0	13
30	Scintillation in (C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> NH <sub>3</sub> ) <sub>2</sub> SnBr <sub>4</sub> : green-emitting lead-free perovskite halide materials. RSC Advances, 2021, 11, 20635-20640.	1.7	13
31	Ligand size effects in two-dimensional hybrid copper halide perovskites crystals. Communications Materials, 2021, 2, .	2.9	12
32	On-Surface Synthesis of Variable Bandgap Nanoporous Graphene. Small, 2021, 17, e2102246.	5.2	11
33	Electronic and Optical Modulation of Metal-Doped Hybrid Organic-Inorganic Perovskites Crystals by Post-Treatment Control. ACS Applied Energy Materials, 2020, 3, 7500-7511.	2.5	10
34	Electronic properties of individual diarylethene molecules studied using scanning tunneling spectroscopy. Journal of Applied Physics, 2012, 111, .	1.1	9
35	Shedding light on the energy applications of emerging 2D hybrid organic-inorganic halide perovskites. IScience, 2022, 25, 103753.	1.9	9
36	Thermally Induced Chiral Aggregation of Dihydrobenzopyrenone on Au(111). ACS Applied Materials & Interfaces, 2020, 12, 35547-35554.	4.0	7

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37	MBE-grown ultrathin PtTe <sub>2</sub> films and their layer-dependent electronic structures. <i>Nanoscale</i> , 2022, 14, 7650-7658.	2.8	7
38	Real-space Investigation of the Multiple Halogen Bonds by Ultrahigh-resolution Scanning Probe Microscopy. <i>Small</i> , 2022, 18, .	5.2	7
39	Photodetection and scintillation characterizations of novel lead-bismuth double perovskite halides. <i>Journal of Materials Chemistry C</i> , 2022, 10, 11266-11275.	2.7	7
40	Spin Correlated-Plasmons at Room Temperature Driven by Electronic Correlations in Lead-Free 2D Hybrid Organic-Inorganic Perovskites. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14272-14278.	1.5	5
41	Temperature-induced orbital polarizations and tunable charge dynamics in layered double perovskite thin films. <i>Materials Today Energy</i> , 2022, 24, 100921.	2.5	5
42	The Growth of ZnO Nanorods on Stainless-steel foils and Its Application for Piezoelectric Nanogenerator. <i>Journal of Physics: Conference Series</i> , 2018, 1093, 012004.	0.3	4
43	Synthesis and characterization of CIGS/ZnO film by spin coating method for solar cell application. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	4
44	Water robustness of organic thin-film transistors based on pyrazino[2,3- <i>g</i> ]quinoxaline-dione conjugated polymer. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4157-4163.	2.7	4
45	Understanding the Mechanism of PbCl <sub>2</sub> Additive for MAPbI <sub>3</sub> -Based Perovskite Solar Cells. <i>Advanced Photonics Research</i> , 2021, 2, 2100012.	1.7	4
46	Molecular functionalization of all-inorganic perovskite CsPbBr <sub>3</sub> thin films. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12587-12598.	2.7	3
47	Low-Dimensional Porous Carbon Networks Using Single-/Triple-Coupling Polycyclic Hydrocarbon Precursors. <i>ACS Nano</i> , 2022, 16, 9843-9851.	7.3	3
48	Towards molecular doping effect on the electronic properties of two-dimensional layered materials. <i>Journal of Physics: Conference Series</i> , 2016, 739, 012014.	0.3	2
49	Design of perovskite photonic crystals for emission control. <i>Journal of Physics: Conference Series</i> , 2019, 1170, 012003.	0.3	2
50	Synthesis and characterization of CIGS ink by hot injection method. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
51	Electronic and Optical Modulation of Pine Tree-like Nanostructures of Gallium Nitride. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13917-13924.	1.5	1
52	ELECTRONIC AND OPTICAL MODIFICATION OF ORGANIC-HYBRID PEROVSKITES. <i>Surface Review and Letters</i> , 2021, 28, 2140010.	0.5	1
53	Metal-insulator transition switching in $\text{VO}_x/\text{TiO}_2$ heterojunctions. <i>Physical Review Materials</i> , 2022, 6, .		
54	Topographic and Electronic Properties of 3,4,9,10-Perylene Tetra Carboxylic Dianhydride (PTCDA) on Indium Tin Oxide (ITO) Surface. <i>Advanced Materials Research</i> , 2015, 1112, 110-115.	0.3	0

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55	SCREENING EFFECTS AT ORGANICâ€“2D MATERIAL HETEROINTERFACES. Surface Review and Letters, 2021, 28, 2140008.	0.5	0
56	FORWARD: MOLECULAR INTERACTIONS ON TWO-DIMENSIONAL MATERIALS. Surface Review and Letters, 2021, 28, 2102001.	0.5	0
57	Spectroscopic Contrast of Diarylethene Molecules on Octanethiol Monolayer. Makara Journal of Technology, 2017, 21, 75.	0.4	0
58	Screening Effects at Organicâ€“2D Material Heterointerfaces. , 2021, , 203-239.		0
59	Electronic and Optical Modification of Organic-hybrid Perovskites. , 2021, , 333-377.		0
60	Ion-doped two-dimensional perovskite crystals for versatile radiation detection (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 T		
61	Realizing Two-Dimensional Supramolecular Arrays of a Spin Molecule via Halogen Bonding. ACS Nanoscience Au, 0, , .	2.0	0