

# Ibrahim Abdelwahab

## List of Publications by Year in descending order

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34  
papers

2,631  
citations

257450

24  
h-index

414414

32  
g-index

35  
all docs

35  
docs citations

35  
times ranked

4557  
citing authors

#	ARTICLE	IF	CITATIONS
1	A two-dimensional conjugated aromatic polymer via C-C coupling reaction. Nature Chemistry, 2017, 9, 563-570.	13.6	306
2	Molecularly thin two-dimensional hybrid perovskites with tunable optoelectronic properties due to reversible surface relaxation. Nature Materials, 2018, 17, 908-914.	27.5	295
3	Chemically Exfoliated VSe <sub>2</sub> Monolayers with Room-Temperature Ferromagnetism. Advanced Materials, 2019, 31, e1903779.	21.0	251
4	Chemical Stabilization of 1T <sup>±</sup> Phase Transition Metal Dichalcogenides with Giant Optical Kerr Nonlinearity. Journal of the American Chemical Society, 2017, 139, 2504-2511.	13.7	171
5	Gate-Tunable In-Plane Ferroelectricity in Few-Layer SnS. Nano Letters, 2019, 19, 5109-5117.	9.1	129
6	Exploring Ferroelectric Switching in In <sub>2</sub> Se <sub>3</sub> for Neuromorphic Computing. Advanced Functional Materials, 2020, 30, 2004609.	14.9	119
7	Ferroelectricity and Rashba Effect in a Two-Dimensional Dion-Jacobson Hybrid Organic-Inorganic Perovskite. Journal of the American Chemical Society, 2019, 141, 15972-15976.	13.7	113
8	A flexible multiplexed immunosensor for point-of-care in situ wound monitoring. Science Advances, 2021, 7, .	10.3	106
9	Highly Enhanced Third-Harmonic Generation in 2D Perovskites at Excitonic Resonances. ACS Nano, 2018, 12, 644-650.	14.6	100
10	Two-Dimensional Polymer Synthesized via Solid-State Polymerization for High-Performance Supercapacitors. ACS Nano, 2018, 12, 852-860.	14.6	91
11	Single crystal of a one-dimensional metallo-covalent organic framework. Nature Communications, 2020, 11, 1434.	12.8	77
12	Quasi-Monolayer Black Phosphorus with High Mobility and Air Stability. Advanced Materials, 2018, 30, 1704619.	21.0	76
13	Ultrafast All-Optical Modulation in 2D Hybrid Perovskites. ACS Nano, 2019, 13, 9504-9510.	14.6	71
14	2D Perovskites with Giant Excitonic Optical Nonlinearities for High-Performance Sub-Bandgap Photodetection. Advanced Materials, 2019, 31, e1904155.	21.0	70
15	Temperature- and Phase-Dependent Phonon Renormalization in 1T <sup>±</sup> -MoS <sub>2</sub> . ACS Nano, 2018, 12, 5051-5058.	14.6	63
16	Homoepitaxial Growth of Large-Scale Highly Organized Transition Metal Dichalcogenide Patterns. Advanced Materials, 2018, 30, 1704674.	21.0	63
17	Giant second-harmonic generation in ferroelectric NbOI <sub>2</sub> . Nature Photonics, 2022, 16, 644-650.	31.4	57
18	Giant and Tunable Optical Nonlinearity in Single-Crystalline 2D Perovskites due to Excitonic and Plasma Effects. Advanced Materials, 2019, 31, e1902685.	21.0	56

#	ARTICLE	IF	CITATIONS
19	Highly Stable Two-Dimensional Tin(II) Iodide Hybrid Organic-Inorganic Perovskite Based on Stilbene Derivative. <i>Advanced Functional Materials</i> , 2019, 29, 1904810.	14.9	55
20	Large Area Synthesis of 1D-MoSe <sub>2</sub> Using Molecular Beam Epitaxy. <i>Advanced Materials</i> , 2017, 29, 1605641.	21.0	54
21	Surface-Limited Superconducting Phase Transition on 1T-TaS <sub>2</sub> . <i>ACS Nano</i> , 2018, 12, 12619-12628.	14.6	54
22	Unlocking surface octahedral tilt in two-dimensional Ruddlesden-Popper perovskites. <i>Nature Communications</i> , 2022, 13, 138.	12.8	42
23	Anisotropic Third-Order Nonlinearity in Pristine and Lithium Hydride Intercalated Black Phosphorus. <i>ACS Photonics</i> , 2018, 5, 4969-4977.	6.6	40
24	Electron tunneling at the molecularly thin 2D perovskite and graphene van der Waals interface. <i>Nature Communications</i> , 2020, 11, 5483.	12.8	35
25	High-Yield Exfoliation of Monolayer 1T <sup>TM</sup> -MoTe <sub>2</sub> as Saturable Absorber for Ultrafast Photonics. <i>ACS Nano</i> , 2021, 15, 18448-18457.	14.6	28
26	Desalination properties of a free-standing, partially oxidized few-layer graphene membrane. <i>Desalination</i> , 2019, 451, 72-80.	8.2	24
27	Atomic Imaging of Electrically Switchable Striped Domains in $\text{In}^2\text{Sn}_2\text{Se}_3$ . <i>Advanced Science</i> , 2021, 8, e2100713.	11.2	22
28	Data-driven discovery of high performance layered van der Waals piezoelectric NbOI <sub>2</sub> . <i>Nature Communications</i> , 2022, 13, 1884.	12.8	22
29	Epitaxial Growth of Single-Layer Niobium Selenides with Controlled Stoichiometric Phases. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800429.	3.7	13
30	Thermal, Structural and Electrical Study of the Effect of Annealing on the Passivation by Amorphous Silicon of n-type Crystalline (100) Silicon Surfaces. <i>Energy Procedia</i> , 2014, 55, 818-826.	1.8	10
31	One-Pot Confined Epitaxial Growth of 2D Heterostructure Arrays. , 2021, 3, 217-223.		8
32	Sub-angstrom noninvasive imaging of atomic arrangement in 2D hybrid perovskites. <i>Science Advances</i> , 2022, 8, eabj0395.	10.3	5
33	Wet chemical treatment of boron doped emitters on n-type (100) c-Si prior to amorphous silicon passivation. <i>Applied Surface Science</i> , 2015, 328, 140-145.	6.1	4
34	Giant and Tunable Optical Nonlinearity in Single-Crystalline 2D Perovskites due to Excitonic and Plasma Effects. , 2019, , .		0