

# Can Ataca

## List of Publications by Year in descending order

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43  
papers

7,538  
citations

186265  
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docs citations

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times ranked

10409  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermally Driven Crossover from Indirect toward Direct Bandgap in 2D Semiconductors: MoSe <sub>2</sub> versus MoS <sub>2</sub> . Nano Letters, 2012, 12, 5576-5580.	9.1	1,206
2	Stable, Single-Layer MX <sub>2</sub> Transition-Metal Oxides and Dichalcogenides in a Honeycomb-Like Structure. Journal of Physical Chemistry C, 2012, 116, 8983-8999.	3.1	1,196
3	Defects activated photoluminescence in two-dimensional semiconductors: interplay between bound, charged and free excitons. Scientific Reports, 2013, 3, 2657.	3.3	876
4	Broad-Range Modulation of Light Emission in Two-Dimensional Semiconductors by Molecular Physisorption Gating. Nano Letters, 2013, 13, 2831-2836.	9.1	674
5	Functionalization of Single-Layer MoS <sub>2</sub> Honeycomb Structures. Journal of Physical Chemistry C, 2011, 115, 13303-13311.	3.1	484
6	Mechanical and Electronic Properties of MoS <sub>2</sub> Nanoribbons and Their Defects. Journal of Physical Chemistry C, 2011, 115, 3934-3941.	3.1	427
7	High-capacity hydrogen storage by metallized graphene. Applied Physics Letters, 2008, 93, .	3.3	397
8	Hydrogen storage of calcium atoms adsorbed on graphene: First-principles plane wave calculations. Physical Review B, 2009, 79, .	3.2	314
9	A Comparative Study of Lattice Dynamics of Three- and Two-Dimensional MoS <sub>2</sub> . Journal of Physical Chemistry C, 2011, 115, 16354-16361.	3.1	298
10	Self-Driven Photodetector and Ambipolar Transistor in Atomically Thin GaTe-MoS <sub>2</sub> vdW Heterostructure. ACS Applied Materials & Interfaces, 2016, 8, 2533-2539.	8.0	160
11	Optical and Electronic Properties of Two-Dimensional Layered Materials. Nanophotonics, 2017, 6, 479-493.	6.0	145
12	Electronic and magnetic properties of graphene nanoribbons. Physical Review B, 2010, 81, .	3.2	136
13	Dissociation of H <sub>2</sub> O at the vacancies of single-layer MoS <sub>2</sub> . Physical Review B, 2012, 85, .	3.2	132
14	Magnetization of graphene by dehydrogenation. Applied Physics Letters, 2009, 95, .	3.3	110
15	Frictional Figures of Merit for Single Layered Nanostructures. Physical Review Letters, 2012, 108, 126103.	7.8	110
16	Functionalization of BN honeycomb structure by adsorption and substitution of foreign atoms. Physical Review B, 2010, 82, .	3.2	92
17	Structural, electronic, and magnetic properties of transition metal monatomic chains: First-principles calculations. Physical Review B, 2008, 77, .	3.2	63
18	Effects of silicon and germanium adsorbed on graphene. Applied Physics Letters, 2010, 96, .	3.3	63

#	ARTICLE	IF	CITATIONS
19	Adsorption of carbon adatoms to graphene and its nanoribbons. Journal of Applied Physics, 2011, 109, 013704.	2.5	59
20	MoS <sub>2</sub> Enhanced T-Phase Stabilization and Tunability Through Alloying. Journal of Physical Chemistry Letters, 2016, 7, 2304-2309.	4.6	54
21	Comprehensive Study of Lithium Adsorption and Diffusion on Janus Mo/WXY (X, Y = S, Se, Te) Using First-Principles and Machine Learning Approaches. ACS Applied Materials & Interfaces, 2021, 13, 36388-36406.	8.0	52
22	Janus $PtX_nY$		

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37	Enhancing light emission efficiency without color change in post-transition metal chalcogenides. <i>Nanoscale</i> , 2016, 8, 5820-5825.	5.6	13
38	Abnormal Phase Transition and Band Renormalization of Guanidinium-Based Organic-Inorganic Hybrid Perovskite. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44964-44971.	8.0	8
39	Stability of adsorption of Mg and Na on sulfur-functionalized MXenes. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 25424-25433.	2.8	8
40	Surface Defect Engineering of MoS <sub>2</sub> for Atomic Layer Deposition of TiO <sub>2</sub> Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 48150-48160.	8.0	7
41	A pathway toward high-throughput quantum Monte Carlo simulations for alloys: A case study of two-dimensional (2D) GaS <sub>x</sub> Se <sub>1-x</sub> . <i>Journal of Chemical Physics</i> , 2021, 155, 194112.	3.0	7
42	Intrinsic Ferromagnetism of Two-Dimensional (2D) MnO <sub>2</sub> Revisited: A Many-Body Quantum Monte Carlo and DFT+U Study. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5813-5821.	3.1	6
43	Layered Perovskites: Unusual Pressure-Driven Phase Transformation and Band Renormalization in 2D vdW Hybrid Lead Halide Perovskites ( <i>Adv. Mater.</i> 12/2020). <i>Advanced Materials</i> , 2020, 32, 2070088.	21.0	1