Armin VahidMohammadi

List of Publications by Citations

27 papers	1,966 citations	16 h-index	37 g-index
37 ext. papers	2,983 ext. citations	13.7 avg, IF	5.95 L-index

#	Paper	IF	Citations
27	Room Temperature Gas Sensing of Two-Dimensional Titanium Carbide (MXene). *ACS Applied Materials & Interfaces*, **2017**, 9, 37184-37190	9.5	314
26	The world of two-dimensional carbides and nitrides (MXenes). *Science*, **2021**, 372,	33.3	276
25	Two-Dimensional Vanadium Carbide (MXene) as a High-Capacity Cathode Material for Rechargeable Aluminum Batteries. *ACS Nano*, **2017**, 11, 11135-11144	16.7	272
24	Assembling 2D MXenes into Highly Stable Pseudocapacitive Electrodes with High Power and Energy Densities. *Advanced Materials*, **2019**, 31, e1806931	24	160
23	Thick and freestanding MXene/PANI pseudocapacitive electrodes with ultrahigh specific capacitance. *Journal of Materials Chemistry A*, **2018**, 6, 22123-22133	13	151
22	Two-Dimensional Vanadium Carbide MXene for Gas Sensors with Ultrahigh Sensitivity Toward Nonpolar Gases. *ACS Sensors*, **2019**,	9.2	135
21	Multifunctional Nanocomposites with High Strength and Capacitance Using 2D MXene and 1D Nanocellulose. *Advanced Materials*, **2019**, 31, e1902977	24	129
20	Layer-by-layer self-assembly of pillared two-dimensional multilayers. *Nature Communications*, **2019**, 10, 2558	17.4	98
19	Single-Molecule Sensing Using Nanopores in Two-Dimensional Transition Metal Carbide (MXene) Membranes. *ACS Nano*, **2019**, 13, 3042-3053	16.7	85
18	Controlling the Dimensions of 2D MXenes for Ultrahigh-Rate Pseudocapacitive Energy Storage. *ACS Applied Materials & Interfaces*, **2018**, 10, 25949-25954	9.5	75
17	Insights into the thermal and chemical stability of multilayered VCT MXene. *Nanoscale*, **2019**, 11, 10716-10726	7.7	65
16	High permeability sub-nanometre sieve composite MoS membranes. *Nature Communications*, **2020**, 11, 2747	17.4	44
15	Fundamentals of Synthesis, Sintering Issues, and Chemical Stability of $BaZr_{0.1}Ce_{0.7}Y_{0.1}Yb_{0.1}O_{3-\delta}$ Proton Conducting Electrolyte for SOFCs. *Journal of the Electrochemical Society*, **2015**, 162, F803-F811	3.9	26
14	Insights into the Genesis of a Selective and Coke-Resistant MXene-Based Catalyst for the Dry Reforming of Methane. *ACS Catalysis*, **2020**, 10, 5124-5134	13.1	21
13	Wafer-Scale Lateral Self-Assembly of Mosaic TiCT MXene Monolayer Films. *ACS Nano*, **2021**, 15, 625-636	16.7	20
12	Multilayered Two-Dimensional V2CTx MXene for Methane Dehydroaromatization. *ChemCatChem*, **2020**, 12, 3639-3643	5.2	16
11	2D titanium and vanadium carbide MXene heterostructures for electrochemical energy storage. *Energy Storage Materials*, **2021**, 41, 554-562	19.4	16

List of Publications

10	Synthesis and characterization of pure metallic titanium nanoparticles by an electromagnetic levitation melting gas condensation method. *RSC Advances*, **2014**, 4, 7104-7108	3.7	12
9	Liquid-phase exfoliation of layered biochars into multifunctional heteroatom (Fe, N, S) co-doped graphene-like carbon nanosheets. *Chemical Engineering Journal*, **2021**, 420, 127601	14.7	11
8	Guidelines for Synthesis and Processing of Chemically Stable Two-Dimensional V2CTx MXene. *Chemistry of Materials*, **2022**, 34, 499-509	9.6	11
7	High-Speed Ionic Synaptic Memory Based on 2D Titanium Carbide MXene. *Advanced Functional Materials*,2109970	15.6	9
6	Layer-by-Layer Self-Assembled Nanostructured Electrodes for Lithium-Ion Batteries. *Small*, **2021**, 17, e2006434	11	7
5	2D MXenes: Assembling 2D MXenes into Highly Stable Pseudocapacitive Electrodes with High Power and Energy Densities (Adv. Mater. 8/2019). *Advanced Materials*, **2019**, 31, 1970057	24	5
4	Techniques for MXene Delamination into Single-Layer Flakes **2019**, 177-195		2
3	Ionically Active MXene Nanopore Actuators.. *Small*, **2022**, 18, e2105857	11	1
2	Study On Sintering And Stability Issues Of BaZr0.1Ce0.7Y0.1 Yb0.1O3Electrolyte For SOFCs. *Ceramic Engineering and Science Proceedings*,21-29	0.1	
1	High-Speed Ionic Synaptic Memory Based on 2D Titanium Carbide MXene (Adv. Funct. Mater. 12/2022). *Advanced Functional Materials*, **2022**, 32, 2270071	15.6	