

# Emad Oveisi

## List of Publications by Year in descending order

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65  
papers

4,813  
citations

117453

34  
h-index

110170

64  
g-index

69  
all docs

69  
docs citations

69  
times ranked

8155  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D reconstruction of curvilinear structures with stereo matching deep convolutional neural networks. <i>Ultramicroscopy</i> , 2022, 234, 113460.	0.8	5
2	Metallosupramolecular polymers as precursors for platinum nanocomposites. <i>Polymer Chemistry</i> , 2022, 13, 1880-1890.	1.9	0
3	3D <i>vs.</i> turbostratic: controlling metal-organic framework dimensionality via N-heterocyclic carbene chemistry. <i>Chemical Science</i> , 2022, 13, 6418-6428.	3.7	2
4	Lamellar carbon-aluminosilicate nanocomposites with macroscopic orientation. <i>Nanoscale</i> , 2021, 13, 13650-13657.	2.8	0
5	Millisecond lattice gasification for high-density CO <sub>2</sub> and O <sub>2</sub> -sieving nanopores in single-layer graphene. <i>Science Advances</i> , 2021, 7, .	4.7	47
6	Dynamics and healing behavior of metallosupramolecular polymers. <i>Science Advances</i> , 2021, 7, .	4.7	25
7	Soft-probe-scanning electrochemical microscopy reveals electrochemical surface reactivity of <i>E. coli</i> biofilms. <i>Sensors and Actuators B: Chemical</i> , 2021, 334, 129669.	4.0	11
8	Atomic scale symmetry and polar nanoclusters in the paraelectric phase of ferroelectric materials. <i>Nature Communications</i> , 2021, 12, 3509.	5.8	51
9	Prussian Blue Analogue Sodium Vanadium Hexacyanoferrate as a Cathode Material for Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 9758-9765.	2.5	18
10	Bottom-up synthesis of graphene films hosting atom-thick molecular-sieving apertures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	14
11	Efficient reductive amination of HMF with well dispersed Pd nanoparticles immobilized in a porous MOF/polymer composite. <i>Green Chemistry</i> , 2020, 22, 368-378.	4.6	58
12	Spatially Resolved Production of Platinum Nanoparticles in Metallosupramolecular Polymers. <i>Journal of the American Chemical Society</i> , 2020, 142, 342-348.	6.6	7
13	A metal-organic framework/polymer derived catalyst containing single-atom nickel species for electrocatalysis. <i>Chemical Science</i> , 2020, 11, 10991-10997.	3.7	32
14	Preparation of Highly Porous Metal-Organic Framework Beads for Metal Extraction from Liquid Streams. <i>Journal of the American Chemical Society</i> , 2020, 142, 13415-13425.	6.6	123
15	Nanocrystals as Precursors in Solid-State Reactions for Size- and Shape-Controlled Polyelemental Nanomaterials. <i>Journal of the American Chemical Society</i> , 2020, 142, 15931-15940.	6.6	21
16	Oxidative Print Light Synthesis Thin Film Deposition of Prussian Blue. <i>ACS Applied Electronic Materials</i> , 2020, 2, 927-935.	2.0	37
17	Structure-Property Relationships of Microphase-Separated Metallosupramolecular Polymers. <i>Macromolecules</i> , 2020, 53, 5068-5084.	2.2	25
18	Proton-transfer-induced 3D/2D hybrid perovskites suppress ion migration and reduce luminance overshoot. <i>Nature Communications</i> , 2020, 11, 3378.	5.8	108

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19	Large-scale synthesis of crystalline g-C <sub>3</sub> N <sub>4</sub> nanosheets and high-temperature H <sub>2</sub> sieving from assembled films. <i>Science Advances</i> , 2020, 6, eaay9851.	4.7	105
20	Inkjet-Printed TiO <sub>2</sub> /Fullerene Composite Films for Planar Perovskite Solar Cells. <i>Helvetica Chimica Acta</i> , 2020, 103, e2000044.	1.0	6
21	Interfacial Effect between Aluminum-Based Complex Hydrides and Nickel-Containing Porous Carbon Sheets. <i>ACS Applied Energy Materials</i> , 2020, 3, 9685-9695.	2.5	6
22	Print-Light-Synthesis of Ni and NiFe-Nanoscale Catalysts for Oxygen Evolution. <i>ACS Applied Energy Materials</i> , 2019, 2, 6322-6331.	2.5	15
23	Preserving Porosity of Mesoporous Metal-Organic Frameworks through the Introduction of Polymer Guests. <i>Journal of the American Chemical Society</i> , 2019, 141, 12397-12405.	6.6	68
24	High-permeance polymer-functionalized single-layer graphene membranes that surpass the postcombustion carbon capture target. <i>Energy and Environmental Science</i> , 2019, 12, 3305-3312.	15.6	100
25	Synthesis of Cu/CeO <sub>2-x</sub> Nanocrystalline Heterodimers with Interfacial Active Sites To Promote CO <sub>2</sub> Electroreduction. <i>ACS Catalysis</i> , 2019, 9, 5035-5046.	5.5	124
26	A new post-synthetic polymerization strategy makes metal-organic frameworks more stable. <i>Chemical Science</i> , 2019, 10, 4542-4549.	3.7	112
27	Stable perovskite solar cells using tin acetylacetonate based electron transporting layers. <i>Energy and Environmental Science</i> , 2019, 12, 1910-1917.	15.6	57
28	Discovery of a self-healing catalyst for the hydrolytic dehydrogenation of ammonia borane. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23830-23837.	5.2	14
29	Hard Phase Crystallization Directs the Phase Segregation of Hydrogen-Bonded Supramolecular Polymers. <i>Macromolecules</i> , 2019, 52, 2164-2172.	2.2	9
30	Insights into image contrast from dislocations in ADF-STEM. <i>Ultramicroscopy</i> , 2019, 200, 139-148.	0.8	18
31	Sodium chromium hexacyanoferrate as a potential cathode material for aqueous sodium-ion batteries. <i>Chemical Communications</i> , 2019, 55, 14633-14636.	2.2	16
32	Inkjet-Printed Mesoporous TiO <sub>2</sub> and Perovskite Layers for High Efficiency Perovskite Solar Cells. <i>Energy Technology</i> , 2019, 7, 317-324.	1.8	67
33	The role of malachite nanorods for the electrochemical reduction of CO <sub>2</sub> to C <sub>2</sub> hydrocarbons. <i>Electrochimica Acta</i> , 2019, 297, 55-60.	2.6	16
34	Structural Sensitivities in Bimetallic Catalysts for Electrochemical CO <sub>2</sub> Reduction Revealed by Ag-Cu Nanodimers. <i>Journal of the American Chemical Society</i> , 2019, 141, 2490-2499.	6.6	382
35	Auto-passivation of crystal defects in hybrid imidazolium/methylammonium lead iodide films by fumigation with methylamine affords high efficiency perovskite solar cells. <i>Nano Energy</i> , 2019, 58, 105-111.	8.2	78
36	Trash into Treasure: $\gamma$ -FAPbI <sub>3</sub> Polymorph Stabilized MAPbI <sub>3</sub> Perovskite with Power Conversion Efficiency beyond 21%. <i>Advanced Materials</i> , 2018, 30, e1707143.	11.1	101

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37	A large planetary body inferred from diamond inclusions in a ureilite meteorite. <i>Nature Communications</i> , 2018, 9, 1327.	5.8	56
38	Selective growth of layered perovskites for stable and efficient photovoltaics. <i>Energy and Environmental Science</i> , 2018, 11, 952-959.	15.6	305
39	MOF-Derived Cobalt Phosphide/Carbon Nanocubes for Selective Hydrogenation of Nitroarenes to Anilines. <i>Chemistry - A European Journal</i> , 2018, 24, 4234-4238.	1.7	73
40	Rapid, Selective Heavy Metal Removal from Water by a Metal-Organic Framework/Polydopamine Composite. <i>ACS Central Science</i> , 2018, 4, 349-356.	5.3	311
41	Intercalation makes the difference with TiS <sub>2</sub> : Boosting electrocatalytic water oxidation activity through Co intercalation. <i>Journal of Materials Research</i> , 2018, 33, 528-537.	1.2	4
42	Rapid, Selective Extraction of Trace Amounts of Gold from Complex Water Mixtures with a Metal-Organic Framework (MOF)/Polymer Composite. <i>Journal of the American Chemical Society</i> , 2018, 140, 16697-16703.	6.6	195
43	Mixed-Phase MOF-Derived Titanium Dioxide for Photocatalytic Hydrogen Evolution: The Impact of the Templated Morphology. <i>ACS Applied Energy Materials</i> , 2018, 1, 6541-6548.	2.5	42
44	Rapid inkjet printing of high catalytic activity Co <sub>3</sub> O <sub>4</sub> /N-rGO layers for oxygen reduction reaction. <i>Applied Catalysis A: General</i> , 2018, 563, 9-17.	2.2	17
45	A Facile Preparative Route of Nanoscale Perovskites over Mesoporous Metal Oxide Films and Their Applications to Photosensitizers and Light Emitters. <i>Advanced Functional Materials</i> , 2018, 28, 1803801.	7.8	17
46	Metal-Organic Framework-Derived Co <sub>3</sub> S <sub>4</sub> Hollow Nanoboxes for the Selective Reduction of Nitroarenes. <i>ChemSusChem</i> , 2018, 11, 3131-3138.	3.6	40
47	Single-layer graphene membranes by crack-free transfer for gas mixture separation. <i>Nature Communications</i> , 2018, 9, 2632.	5.8	160
48	Stereo-vision three-dimensional reconstruction of curvilinear structures imaged with a TEM. <i>Ultramicroscopy</i> , 2018, 184, 116-124.	0.8	15
49	Selective and Stable Electroreduction of CO <sub>2</sub> to CO at the Copper/Indium Interface. <i>ACS Catalysis</i> , 2018, 8, 6571-6581.	5.5	175
50	Potential-induced nanoclustering of metallic catalysts during electrochemical CO <sub>2</sub> reduction. <i>Nature Communications</i> , 2018, 9, 3117.	5.8	253
51	Post-test Analysis on a Solid Oxide Cell Stack Operated for 10,700 Hours in Steam Electrolysis Mode. <i>Fuel Cells</i> , 2017, 17, 541-549.	1.5	43
52	CsPbBr <sub>3</sub> QD/AlO <sub>x</sub> Inorganic Nanocomposites with Exceptional Stability in Water, Light, and Heat. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10696-10701.	7.2	389
53	Computer Vision Techniques Applied to the Reconstruction of the 3-D Structure Dislocations. <i>Microscopy and Microanalysis</i> , 2017, 23, 102-103.	0.2	0
54	Tilt-less 3-D electron imaging and reconstruction of complex curvilinear structures. <i>Scientific Reports</i> , 2017, 7, 10630.	1.6	19

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55	Dopantâ€Free Holeâ€Transporting Materials for Stable and Efficient Perovskite Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1606555.	11.1	171
56	Strontium Migration at the GDC-YSZ Interface of Solid Oxide Cells in SOFC and SOEC Modes. <i>ECS Transactions</i> , 2017, 78, 3297-3307.	0.3	10
57	Enhanced charge collection with passivation of the tin oxide layer in planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12729-12734.	5.2	103
58	PbI <sub>2</sub> â€HMPA Complex Pretreatment for Highly Reproducible and Efficient CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 14380-14387.	6.6	107
59	Highâ€Performance Perovskite Solar Cells with Enhanced Environmental Stability Based on Amphiphileâ€Modified CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Advanced Materials</i> , 2016, 28, 2910-2915.	11.1	258
60	Structure and electronic properties of AlCrOxN1âˆ³ thin films deposited by reactive magnetron sputtering. <i>Thin Solid Films</i> , 2014, 572, 176-183.	0.8	13
61	Functional carbon nanosheets prepared from hexayne amphiphile monolayers at room temperature. <i>Nature Chemistry</i> , 2014, 6, 468-476.	6.6	97
62	Corona protein composition and cytotoxicity evaluation of ultra-small zeolites synthesized from template free precursor suspensions. <i>Toxicology Research</i> , 2013, 2, 270.	0.9	41
63	Nanoprecipitates in single-crystal molybdenum-alloy nanopillars detected by TEM and atom probe tomography. <i>Scripta Materialia</i> , 2013, 69, 41-44.	2.6	2
64	Slip in directionally solidified Mo-alloy micropillars â€ Part I: Nominally dislocation-free pillars. <i>Acta Materialia</i> , 2012, 60, 4604-4613.	3.8	13
65	Enhancing MOF performance through the Introduction of polymer guests. , 0, , .		0