

# Ali Esfandiar

## List of Publications by Year in descending order

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45  
papers

4,636  
citations

257450

24  
h-index

243625

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g-index

49  
all docs

49  
docs citations

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times ranked

6708  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Photoresponse and Wavelength Selectivity by SILAR-Coated Quantum Dots on Two-Dimensional WSe <sub>2</sub> Crystals. ACS Omega, 2022, 7, 2091-2098.	3.5	9
2	Urchin-like hierarchical ruthenium cobalt oxide nanosheets on Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene as a binder-free bifunctional electrode for overall water splitting and supercapacitors. Nanoscale, 2022, 14, 1347-1362.	5.6	26
3	Cauliflower-Like Ni/MXene-Bridged Fiber-Shaped Electrode for Flexible Microsupercapacitor. Energy & Fuels, 2022, 36, 2140-2148.	5.1	8
4	Design of effective self-powered SnS <sub>2</sub> /halide perovskite photo-detection system based on triboelectric nanogenerator by regarding circuit impedance. Scientific Reports, 2022, 12, 7227.	3.3	14
5	Mechanical hydrolysis imparts self-destruction of water molecules under steric confinement. Physical Chemistry Chemical Physics, 2021, 23, 5999-6008.	2.8	5
6	Visualising structural modification of patterned graphene nanoribbons using tip-enhanced Raman spectroscopy. Chemical Communications, 2021, 57, 6895-6898.	4.1	13
7	Structural and dynamical fingerprints of the anomalous dielectric properties of water under confinement. Physical Review Materials, 2021, 5, .	2.4	10
8	High Energy Aqueous Rechargeable Nickel-Zinc Battery Employing Hierarchical NiV-LDH Nanosheet-Built Microspheres on Reduced Graphene Oxide. ACS Applied Energy Materials, 2021, 4, 2377-2387.	5.1	17
9	Plasmonic enhancement of photocurrent generation in two-dimensional heterostructure of WSe <sub>2</sub> /MoS <sub>2</sub> . Nanotechnology, 2021, 32, 325203.	2.6	15
10	Ultrafast and stable planar photodetector based on SnS <sub>2</sub> nanosheets/perovskite structure. Scientific Reports, 2021, 11, 19353.	3.3	19
11	Facile synthesis of highly efficient bifunctional electrocatalyst by vanadium oxysulfide spheres on cobalt-cobalt sulfonitride nanosheets for oxygen and hydrogen evolution reaction. Electrochimica Acta, 2021, 391, 138948.	5.2	8
12	High flux and complete dyes removal from water by reduced graphene oxide laminate on Poly Vinylidene Fluoride/graphene oxide membranes. Environmental Research, 2021, 201, 111576.	7.5	26
13	A stable and high-energy hybrid supercapacitor using porous Cu <sub>2</sub> O-Cu <sub>1.8</sub> S nanowire arrays. Journal of Materials Chemistry A, 2020, 8, 1920-1928.	10.3	29
14	A graphene/TiS <sub>3</sub> heterojunction for resistive sensing of polar vapors at room temperature. Mikrochimica Acta, 2020, 187, 117.	5.0	14
15	Ion transport through graphene oxide fibers as promising candidate for blue energy harvesting. Carbon, 2020, 165, 267-274.	10.3	25
16	A selective chemiresistive sensor for the cancer-related volatile organic compound hexanal by using molecularly imprinted polymers and multiwalled carbon nanotubes. Mikrochimica Acta, 2019, 186, 137.	5.0	44
17	Shedding Light on Pseudocapacitive Active Edges of Single-Layer Graphene Nanoribbons as High-Capacitance Supercapacitors. ACS Applied Energy Materials, 2019, 2, 3665-3675.	5.1	18
18	High-Photoresponsive Backward Diode by Two-Dimensional SnS <sub>2</sub> /Silicon Heterostructure. ACS Photonics, 2019, 6, 728-734.	6.6	24

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19	Complete steric exclusion of ions and proton transport through confined monolayer water. <i>Science</i> , 2019, 363, 145-148.	12.6	207
20	Shooting at the nanoscale: Collection and acceleration of nanowires with an external electric field. <i>Applied Physics Letters</i> , 2019, 114, 013102.	3.3	2
21	Charge Asymmetry Effect in Ion Transport through Angstrom-Scale Channels. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1462-1469.	3.1	29
22	Universal rotation of nanowires in static uniform electric fields in viscous dielectric liquids. <i>Applied Physics Letters</i> , 2018, 113, 063101.	3.3	4
23	Anomalously low dielectric constant of confined water. <i>Science</i> , 2018, 360, 1339-1342.	12.6	627
24	Ballistic molecular transport through two-dimensional channels. <i>Nature</i> , 2018, 558, 420-424.	27.8	139
25	Scalable and efficient separation of hydrogen isotopes using graphene-based electrochemical pumping. <i>Nature Communications</i> , 2017, 8, 15215.	12.8	119
26	Multi-porous Co <sub>3</sub> O <sub>4</sub> nanoflakes @ sponge-like few-layer partially reduced graphene oxide hybrids: towards highly stable asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12569-12577.	10.3	96
27	Size effect in ion transport through angstrom-scale slits. <i>Science</i> , 2017, 358, 511-513.	12.6	418
28	Molecular transport through capillaries made with atomic-scale precision. <i>Nature</i> , 2016, 538, 222-225.	27.8	483
29	Selecting Support Layer for Electrodeposited Efficient Cobalt Oxide/Hydroxide Nanoflakes to Split Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3151-3159.	6.7	42
30	Effects of vacancies on electronic and optical properties of GaN nanosheet: A density functional study. <i>Optical Materials</i> , 2015, 47, 44-50.	3.6	29
31	Graphene/PbS as a Novel Counter Electrode for Quantum Dot Sensitized Solar Cells. <i>ACS Photonics</i> , 2014, 1, 323-330.	6.6	52
32	Pd@WO <sub>3</sub> /reduced graphene oxide hierarchical nanostructures as efficient hydrogen gas sensors. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8169-8179.	7.1	163
33	Scalable arrays of chemical vapor sensors based on DNA-decorated graphene. <i>Nano Research</i> , 2014, 7, 95-103.	10.4	45
34	Cyto and genotoxicities of graphene oxide and reduced graphene oxide sheets on spermatozoa. <i>RSC Advances</i> , 2014, 4, 27213.	3.6	117
35	DNA-decorated graphene nanomesh for detection of chemical vapors. <i>Applied Physics Letters</i> , 2013, 103, 183110.	3.3	45
36	On the fabrication and characterization of graded slanted chiral nano-sculptured silver thin films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 50, 88-96.	2.7	7

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37	Synthesis and characterization of TiO <sub>2</sub> @graphene nanocomposites modified with noble metals as a photocatalyst for degradation of pollutants. <i>Applied Catalysis A: General</i> , 2013, 462-463, 82-90.	4.3	59
38	The decoration of TiO <sub>2</sub> /reduced graphene oxide by Pd and Pt nanoparticles for hydrogen gas sensing. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15423-15432.	7.1	130
39	Increasing the antioxidant activity of green tea polyphenols in the presence of iron for the reduction of graphene oxide. <i>Carbon</i> , 2012, 50, 3015-3025.	10.3	240
40	Melatonin as a powerful bio-antioxidant for reduction of graphene oxide. <i>Journal of Materials Chemistry</i> , 2011, 21, 10907.	6.7	255
41	Wrapping Bacteria by Graphene Nanosheets for Isolation from Environment, Reactivation by Sonication, and Inactivation by Near-Infrared Irradiation. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6279-6288.	2.6	578
42	Fabrication, characterization and some applications of graded chiral zigzag shaped nano-sculptured silver thin films. <i>Applied Surface Science</i> , 2011, 257, 9425-9434.	6.1	21
43	Optical spectra of graded nanostructured TiO <sub>2</sub> chiral sculptured thin films. <i>Optics Communications</i> , 2010, 283, 2849-2856.	2.1	9
44	Photodegradation of Graphene Oxide Sheets by TiO <sub>2</sub> Nanoparticles after a Photocatalytic Reduction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12955-12959.	3.1	393
45	Bimetallic Oxide Nanosheets from Nickel@Vanadium Layered Double Hydroxide as an Efficient Cathode for Rechargeable Nickel@Zinc Batteries. <i>Energy &amp; Fuels</i> , 0, , .	5.1	3