

# Amir Ghobadi

## List of Publications by Year in descending order

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69  
papers

1,593  
citations

236612

25  
h-index

329751

37  
g-index

74  
all docs

74  
docs citations

74  
times ranked

1582  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lithography-free metamaterial absorbers: opinion. <i>Optical Materials Express</i> , 2022, 12, 524.	1.6	6
2	Subwavelength Densely Packed Disordered Semiconductor Metasurface Units for Photoelectrochemical Hydrogen Generation. <i>ACS Applied Energy Materials</i> , 2022, 5, 2826-2837.	2.5	6
3	An All-Dielectric Metasurface Coupled with Two-Dimensional Semiconductors for Thermally Tunable Ultra-narrowband Light Absorption. <i>Plasmonics</i> , 2021, 16, 687-694.	1.8	6
4	Ultra-broadband Near-Unity Light Absorption by Disjunct Scattering Resonances of Disordered Nanounits Created with Atomic Scale Shadowing Effect. <i>Plasmonics</i> , 2021, 16, 83-90.	1.8	1
5	Active Tuning from Narrowband to Broadband Absorbers Using a Sub-wavelength VO <sub>2</sub> Embedded Layer. <i>Plasmonics</i> , 2021, 16, 1013-1021.	1.8	32
6	Pushing the limits in photosensitizer-catalyst interaction via a short cyanide bridge for water oxidation. <i>Cell Reports Physical Science</i> , 2021, 2, 100319.	2.8	7
7	Strong light emission from a defective hexagonal boron nitride monolayer coupled to near-touching random plasmonic nanounits. <i>Optics Letters</i> , 2021, 46, 1664.	1.7	6
8	Mid-infrared adaptive thermal camouflage using a phase-change material coupled dielectric nanoantenna. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 265105.	1.3	32
9	Building an Iron Chromophore Incorporating Prussian Blue Analogue for Photoelectrochemical Water Oxidation. <i>Chemistry - A European Journal</i> , 2021, 27, 8966-8976.	1.7	9
10	Building an Iron Chromophore Incorporating Prussian Blue Analogue for Photoelectrochemical Water Oxidation. <i>Chemistry - A European Journal</i> , 2021, 27, 8890-8890.	1.7	0
11	Diode like high-contrast asymmetric transmission of linearly polarized waves based on plasmon-tunneling effect coupling to electromagnetic radiation modes. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 365102.	1.3	13
12	Generation of additive colors with near unity amplitude using a multilayer tandem Fabry-Pérot cavity. <i>Optics Letters</i> , 2021, 46, 3464.	1.7	5
13	A spectrally selective gap surface-plasmon-based nanoantenna emitter compatible with multiple thermal infrared applications. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 085001.	1.0	22
14	Adaptive visible and short-wave infrared camouflage using a dynamically tunable metasurface. <i>Optics Letters</i> , 2021, 46, 4777.	1.7	9
15	Multi-spectral infrared camouflage through excitation of plasmon-phonon polaritons in a visible-transparent hBN-ITO nanoantenna emitter. <i>Optics Letters</i> , 2021, 46, 4996.	1.7	10
16	Thermally Tunable from Narrowband to Broadband Metamaterial-Based Nanoantenna Emitter. , 2021, , .		0
17	Wavelength Selectivity in a Polarization-Insensitive Metamaterial-Based Absorber Consistent With Atmospheric Absorption Windows. , 2021, , .		1
18	Dual-Band Polarization Insensitive Metamaterial-Based Absorber Suitable for Sensing Applications. , 2021, , .		0

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19	A Robust, Precious-Metal-Free Dye-Sensitized Photoanode for Water Oxidation: A Nanosecond-Long Excited-State Lifetime through a Prussian Blue Analogue. <i>Angewandte Chemie</i> , 2020, 132, 4111-4119.	1.6	12
20	Large scale compatible fabrication of gold capped titanium dioxide nanoantennas using a shadowing effect for photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1521-1531.	3.8	10
21	Highly Efficient Semiconductor-Based Metasurface for Photoelectrochemical Water Splitting: Broadband Light Perfect Absorption with Dimensions Smaller than the Diffusion Length. <i>Plasmonics</i> , 2020, 15, 829-839.	1.8	3
22	A Robust, Precious-Metal-Free Dye-Sensitized Photoanode for Water Oxidation: A Nanosecond-Long Excited-State Lifetime through a Prussian Blue Analogue. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4082-4090.	7.2	30
23	Lithography-Free Random Bismuth Nanostructures for Full Solar Spectrum Harvesting and Mid-Infrared Sensing. <i>Advanced Optical Materials</i> , 2020, 8, 1901203.	3.6	26
24	Unveiling the optical parameters of vanadium dioxide in the phase transition region: a hybrid modeling approach. <i>RSC Advances</i> , 2020, 10, 29945-29955.	1.7	10
25	Strong Light-Matter Interactions in Au Plasmonic Nanoantennas Coupled with Prussian Blue Catalyst on BiVO <sub>4</sub> for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2020, 13, 2483-2483.	3.6	4
26	Strong Light-Matter Interactions in Au Plasmonic Nanoantennas Coupled with Prussian Blue Catalyst on BiVO <sub>4</sub> for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2020, 13, 2577-2588.	3.6	34
27	Innen-Ä¼cktitelbild: A Robust, Precious-Metal-Free Dye-Sensitized Photoanode for Water Oxidation: A Nanosecond-Long Excited-State Lifetime through a Prussian Blue Analogue ( <i>Angew. Chem.</i> 10/2020). <i>Angewandte Chemie</i> , 2020, 132, 4211-4211.	1.6	1
28	Deep Subwavelength Light Confinement in Disordered Bismuth Nanorods as a Linearly Thermal-Tunable Metamaterial. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000066.	1.2	11
29	One-way and near-absolute polarization insensitive near-perfect absorption by using an all-dielectric metasurface. <i>Optics Letters</i> , 2020, 45, 2010.	1.7	10
30	Numerical analysis of a thermally tunable spectrally selective absorber enabled by an all-dielectric metamirror. <i>Optics Letters</i> , 2020, 45, 6174.	1.7	6
31	Lithography-free disordered metal-insulator-metal nanoantennas for colorimetric sensing. <i>Optics Letters</i> , 2020, 45, 6719.	1.7	3
32	Bismuth plasmonics for extraordinary light absorption in deep sub-wavelength geometries. <i>Optics Letters</i> , 2020, 45, 686.	1.7	11
33	Strong Interference in Planar, Multilayer Perfect Absorbers: Achieving High-Operational Performances in Visible and Near-Infrared Regimes. <i>IEEE Nanotechnology Magazine</i> , 2019, 13, 34-48.	0.9	6
34	Colorimetric and Near-Absolute Polarization-Insensitive Refractive-Index Sensing in All-Dielectric Guided-Mode Resonance Based Metasurface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19125-19134.	1.5	39
35	Investigation of angstrom-thick aluminium oxide passivation layers to improve the gate lag performance of GaN HEMTs. <i>Materials Research Express</i> , 2019, 6, 095052.	0.8	1
36	Lithography-Free Planar Band-Pass Reflective Color Filter Using A Series Connection of Cavities. <i>Scientific Reports</i> , 2019, 9, 290.	1.6	40

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37	Semiconductor Thin Film Based Metasurfaces and Metamaterials for Photovoltaic and Photoelectrochemical Water Splitting Applications. <i>Advanced Optical Materials</i> , 2019, 7, 1900028.	3.6	28
38	Disordered and Densely Packed ITO Nanorods as an Excellent Lithography-Free Optical Solar Reflector Metasurface. <i>ACS Photonics</i> , 2019, 6, 1812-1822.	3.2	55
39	All Ceramic-Based Metal-Free Ultra-broadband Perfect Absorber. <i>Plasmonics</i> , 2019, 14, 1801-1815.	1.8	47
40	Spectrally Selective Ultrathin Photodetectors Using Strong Interference in Nanocavity Design. <i>IEEE Electron Device Letters</i> , 2019, 40, 925-928.	2.2	6
41	Bismuth-based metamaterials: from narrowband reflective color filter to extremely broadband near perfect absorber. <i>Nanophotonics</i> , 2019, 8, 823-832.	2.9	60
42	Tunable infrared asymmetric light transmission and absorption via graphene-hBN metamaterials. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	10
43	VO <sub>2</sub> -hBN-graphene-based bi-functional metamaterial for mid-infrared bi-tunable asymmetric transmission and nearly perfect resonant absorption. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1607.	0.9	29
44	Active metamaterial nearly perfect light absorbers: a review [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, F131.	0.9	47
45	Disordered and densely packed ITO nanorods as an excellent lithography-free optical solar reflector metasurface for the radiative cooling of spacecraft. , 2019, , .		0
46	Strategies for Plasmonic Hot-Electron-Driven Photoelectrochemical Water Splitting. <i>ChemPhotoChem</i> , 2018, 2, 161-182.	1.5	51
47	Angstrom Thick ZnO Passivation Layer to Improve the Photoelectrochemical Water Splitting Performance of a TiO <sub>2</sub> Nanowire Photoanode: The Role of Deposition Temperature. <i>Scientific Reports</i> , 2018, 8, 16322.	1.6	39
48	Near-absolute polarization insensitivity in graphene based ultra-narrowband perfect visible light absorber. <i>Scientific Reports</i> , 2018, 8, 15210.	1.6	21
49	Strong Light-Matter Interaction in Lithography-Free Planar Metamaterial Perfect Absorbers. <i>ACS Photonics</i> , 2018, 5, 4203-4221.	3.2	96
50	Emerging photoluminescence from defective vanadium diselenide nanosheets. <i>Photonics Research</i> , 2018, 6, 244.	3.4	31
51	Tunable, omnidirectional, and nearly perfect resonant absorptions by a graphene-hBN-based hole array metamaterial. <i>Optics Express</i> , 2018, 26, 16940.	1.7	44
52	Tuning the metal filling fraction in metal-insulator-metal ultra-broadband perfect absorbers to maximize the absorption bandwidth. <i>Photonics Research</i> , 2018, 6, 168.	3.4	78
53	Seed Layer Assisted Hydrothermal Deposition of Low-resistivity ZnO Thin Films. <i>MRS Advances</i> , 2017, 2, 799-804.	0.5	1
54	97 percent light absorption in an ultrabroadband frequency range utilizing an ultrathin metal layer: randomly oriented, densely packed dielectric nanowires as an excellent light trapping scaffold. <i>Nanoscale</i> , 2017, 9, 16652-16660.	2.8	38

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55	A performance-enhanced planar Schottky diode for Terahertz applications: an electromagnetic modeling approach. <i>International Journal of Microwave and Wireless Technologies</i> , 2017, 9, 1905-1913.	1.5	4
56	Nanosecond pulsed laser ablated sub-10 nm silicon nanoparticles for improving photovoltaic conversion efficiency of commercial solar cells. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 105902.	1.0	9
57	Disordered Nanohole Patterns in Metal-Insulator Multilayer for Ultra-broadband Light Absorption: Atomic Layer Deposition for Lithography Free Highly repeatable Large Scale Multilayer Growth. <i>Scientific Reports</i> , 2017, 7, 15079.	1.6	31
58	Ultra-Broadband, Lithography-Free, and Large-Scale Compatible Perfect Absorbers: The Optimum Choice of Metal layers in Metal-Insulator Multilayer Stacks. <i>Scientific Reports</i> , 2017, 7, 14872.	1.6	53
59	Ultra-broadband, wide angle absorber utilizing metal insulator multilayers stack with a multi-thickness metal surface texture. <i>Scientific Reports</i> , 2017, 7, 4755.	1.6	50
60	Ultra-broadband Asymmetric Light Transmission and Absorption Through The Use of Metal Free Multilayer Capped Dielectric Microsphere Resonator. <i>Scientific Reports</i> , 2017, 7, 14538.	1.6	12
61	Hybrid plasmon-phonon polariton bands in graphene-hexagonal boron nitride metamaterials [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, D29.	0.9	39
62	Visible light nearly perfect absorber: an optimum unit cell arrangement for near absolute polarization insensitivity. <i>Optics Express</i> , 2017, 25, 27624.	1.7	76
63	Nearly perfect resonant absorption and coherent thermal emission by hBN-based photonic crystals. <i>Optics Express</i> , 2017, 25, 31970.	1.7	25
64	Notice of Withdrawal On-chip characterization of THz Schottky diodes using non-contact probes. , 2016, , .		0
65	Growth of $\sim 43$ -nm ZnO nano-islands using Atomic Layer Deposition. , 2016, , .		1
66	Controlling luminescent silicon nanoparticle emission produced by nanosecond pulsed laser ablation: role of interface defect states and crystallinity phase. <i>RSC Advances</i> , 2016, 6, 112520-112526.	1.7	24
67	A Heterojunction Design of Single Layer Hole Tunneling ZnO Passivation Wrapping around TiO <sub>2</sub> Nanowires for Superior Photocatalytic Performance. <i>Scientific Reports</i> , 2016, 6, 30587.	1.6	95
68	Enhanced Performance of Nanowire-Based All-TiO <sub>2</sub> Solar Cells using Subnanometer-Thick Atomic Layer Deposited ZnO Embedded Layer. <i>Electrochimica Acta</i> , 2015, 157, 23-30.	2.6	16
69	Surface engineered angstrom thick ZnO-sheathed TiO <sub>2</sub> nanowires as photoanodes for performance enhanced dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16867-16876.	5.2	51