

Mohammad Taghinejad

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,120
citations

361296

20
h-index

501076

28
g-index

35
all docs

35
docs citations

35
times ranked

1629
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically driven reprogrammable phase-change metasurface reaching 80% efficiency. <i>Nature Communications</i> , 2022, 13, 1696.	5.8	125
2	Preserving Spin States upon Reflection: Linear and Nonlinear Responses of a Chiral Meta-Mirror. <i>Nano Letters</i> , 2017, 17, 7102-7109.	4.5	124
3	Dynamic Hybrid Metasurfaces. <i>Nano Letters</i> , 2021, 21, 1238-1245.	4.5	85
4	A vertically aligned carbon nanotube-based impedance sensing biosensor for rapid and high sensitive detection of cancer cells. <i>Lab on A Chip</i> , 2012, 12, 1183.	3.1	82
5	Cell-Imprinted Substrates Act as an Artificial Niche for Skin Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13280-13292.	4.0	70
6	All-Optical Control of Light in Micro- and Nanophotonics. <i>ACS Photonics</i> , 2019, 6, 1082-1093.	3.2	68
7	Hot-Electron-Assisted Femtosecond All-Optical Modulation in Plasmonics. <i>Advanced Materials</i> , 2018, 30, 1704915.	11.1	61
8	Ultrafast Control of Phase and Polarization of Light Expedited by Hot-Electron Transfer. <i>Nano Letters</i> , 2018, 18, 5544-5551.	4.5	60
9	Metasurfaces for Near-Eye Augmented Reality. <i>ACS Photonics</i> , 2019, 6, 864-870.	3.2	57
10	Single-cell resolution diagnosis of cancer cells by carbon nanotube electrical spectroscopy. <i>Nanoscale</i> , 2013, 5, 3421.	2.8	48
11	Preparation of various boron-doped TiO ₂ nanostructures by in situ anodizing method and investigation of their photoelectrochemical and photocathodic protection properties. <i>Journal of the Iranian Chemical Society</i> , 2019, 16, 1839-1851.	1.2	44
12	Fabrication and modeling of high sensitivity humidity sensors based on doped silicon nanowires. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 413-419.	4.0	33
13	A Nickel-Gold Bilayer Catalyst Engineering Technique for Self-Assembled Growth of Highly Ordered Silicon Nanotubes (SiNT). <i>Nano Letters</i> , 2013, 13, 889-897.	4.5	27
14	Resonant Light-Induced Heating in Hybrid Cavity-Coupled 2D Transition-Metal Dichalcogenides. <i>ACS Photonics</i> , 2016, 3, 700-707.	3.2	27
15	Electrically Biased Silicon Metasurfaces with Magnetic Mie Resonance for Tunable Harmonic Generation of Light. <i>ACS Photonics</i> , 2019, 6, 2663-2670.	3.2	27
16	Transient Second-Order Nonlinear Media: Breaking the Spatial Symmetry in the Time Domain via Hot-Electron Transfer. <i>Physical Review Letters</i> , 2020, 124, 013901.	2.9	24
17	Synthetic Engineering of Morphology and Electronic Band Gap in Lateral Heterostructures of Monolayer Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2020, 14, 6323-6330.	7.3	24
18	Photocurrent-Induced Active Control of Second-Order Optical Nonlinearity in Monolayer MoS ₂ . <i>Small</i> , 2020, 16, e1906347.	5.2	24

#	ARTICLE	IF	CITATIONS
19	Strain relaxation via formation of cracks in compositionally modulated two-dimensional semiconductor alloys. <i>Npj 2D Materials and Applications</i> , 2018, 2, .	3.9	23
20	Cell membrane electrical charge investigations by silicon nanowires incorporated field effect transistor (SiNW-FET) suitable in cancer research. <i>RSC Advances</i> , 2014, 4, 7425.	1.7	22
21	Evaluation of the shear force of single cancer cells by vertically aligned carbon nanotubes suitable for metastasis diagnosis. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 535-542.	0.6	15
22	A single-cell correlative nanoelectromechanosensing approach to detect cancerous transformation: monitoring the function of F-actin microfilaments in the modulation of the ion channel activity. <i>Nanoscale</i> , 2015, 7, 1879-1887.	2.8	13
23	Dark plasmonic modes in diatomic gratings for plasmoelectronics. <i>Laser and Photonics Reviews</i> , 2017, 11, 1600312.	4.4	11
24	Sharp and Tunable Crystal/Fano-Type Resonances Enabled by Out-of-Plane Dipolar Coupling in Plasmonic Nanopatch Arrays. <i>Annalen Der Physik</i> , 2018, 530, 1700395.	0.9	9
25	Integration of Ni ₂ /Si Nanograin Heterojunction on n-MOSFET to Realize High-Sensitivity Phototransistors. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 3239-3244.	1.6	5
26	Lattice Plasmon Induced Large Enhancement of Excitonic Emission in Monolayer Metal Dichalcogenides. <i>Plasmonics</i> , 2017, 12, 1975-1981.	1.8	5
27	Realization of highly crystallographic three-dimensional nanosheets by a stress-induced oriented-diffusion method. <i>Applied Physics Letters</i> , 2014, 105, 043110.	1.5	3
28	Photocatalytic oxidation of benzyl alcohol and the photoelectrochemical water splitting of visible light-activated TiO ₂ nanostructures prepared by one-step titanium anodization. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	3
29	The conformal silicon deposition on carbon nanotubes as enabled by hydrogenated carbon coatings for synthesis of carbon/silicon core/shell heterostructure photodiodes. <i>Carbon</i> , 2015, 87, 299-308.	5.4	1
30	Strong light-matter interaction through mode engineering in plasmonic nanoantenna arrays. , 2016, , .		0
31	All-optical modulation of ultrasharp lattice plasmons. , 2017, , .		0
32	A Chiral Meta-Mirror Enabled Linear and Nonlinear Chiroptical Responses. , 2018, , .		0
33	Enhancement of light-2D material interaction envisioned for energy harvesting applications. , 2017, , .		0
34	Optical Tuning of Second-Order Optical Nonlinearity in Transition Metal Dichalcogenides. , 2020, , .		0
35	Breaking the Inversion Symmetry via Hot-Electron Transport. , 2020, , .		0