

Hossein Taghinejad

List of Publications by Year in descending order

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papers

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citations

430754

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28
docs citations

28
times ranked

2034
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically driven reprogrammable phase-change metasurface reaching 80% efficiency. Nature Communications, 2022, 13, 1696.	5.8	125
2	Dynamic Hybrid Metasurfaces. Nano Letters, 2021, 21, 1238-1245.	4.5	85
3	ITO-based microheaters for reversible multi-stage switching of phase-change materials: towards miniaturized beyond-binary reconfigurable integrated photonics. Optics Express, 2021, 29, 20449.	1.7	62
4	Synthetic Engineering of Morphology and Electronic Band Gap in Lateral Heterostructures of Monolayer Transition Metal Dichalcogenides. ACS Nano, 2020, 14, 6323-6330.	7.3	24
5	PhotocARRIER-Induced Active Control of Second-Order Optical Nonlinearity in Monolayer MoS ₂ . Small, 2020, 16, e1906347.	5.2	24
6	Tunable nanophotonics enabled by chalcogenide phase-change materials. Nanophotonics, 2020, 9, 1189-1241.	2.9	294
7	Optical Tuning of Second-Order Optical Nonlinearity in Transition Metal Dichalcogenides. , 2020, , .		0
8	Lateral and vertical heterostructures in two-dimensional transition-metal dichalcogenides [Invited]. Optical Materials Express, 2019, 9, 1590.	1.6	40
9	Hot-Electron-Assisted Femtosecond All-Optical Modulation in Plasmonics. Advanced Materials, 2018, 30, 1704915.	11.1	61
10	Strain relaxation via formation of cracks in compositionally modulated two-dimensional semiconductor alloys. Npj 2D Materials and Applications, 2018, 2, .	3.9	23
11	Defect-Mediated Alloying of Monolayer Transition-Metal Dichalcogenides. ACS Nano, 2018, 12, 12795-12804.	7.3	42
12	Sharp and Tunable Crystal/Fano-Type Resonances Enabled by Out-of-Plane Dipolar Coupling in Plasmonic Nanopatch Arrays. Annalen Der Physik, 2018, 530, 1700395.	0.9	9
13	Ultrafast Control of Phase and Polarization of Light Expedited by Hot-Electron Transfer. Nano Letters, 2018, 18, 5544-5551.	4.5	60
14	Lattice Plasmon Induced Large Enhancement of Excitonic Emission in Monolayer Metal Dichalcogenides. Plasmonics, 2017, 12, 1975-1981.	1.8	5
15	Enhancement of light-2D material interaction envisioned for energy harvesting applications. , 2017, , .		0
16	Resonant Light-Induced Heating in Hybrid Cavity-Coupled 2D Transition-Metal Dichalcogenides. ACS Photonics, 2016, 3, 700-707.	3.2	27
17	Strong light-matter interaction through mode engineering in plasmonic nanoantenna arrays. , 2016, , .		0
18	Flexible MoS ₂ Field-Effect Transistors for Gate-Tunable Piezoresistive Strain Sensors. ACS Applied Materials & Interfaces, 2015, 7, 12850-12855.	4.0	127

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Cell-Imprinted Substrates Act as an Artificial Niche for Skin Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13280-13292.	4.0	70
23	Integration of Ni₂/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
24	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
25	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
26	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
27	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
28	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