Hossein Taghinejad

List of Publications by Year
in descending order

28	1,279	430754	610775
papers	citations	18 h-index	24 g-index

28	28	28	2034
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tunable nanophotonics enabled by chalcogenide phase-change materials. Nanophotonics, 2020, 9, 1189-1241.	2.9	294
2	Flexible MoS₂ Field-Effect Transistors for Gate-Tunable Piezoresistive Strain Sensors. ACS Applied Materials & Interfaces, 2015, 7, 12850-12855.	4.0	127
3	Electrically driven reprogrammable phase-change metasurface reaching 80% efficiency. Nature Communications, 2022, 13, 1696.	5.8	125
4	Dynamic Hybrid Metasurfaces. Nano Letters, 2021, 21, 1238-1245.	4.5	85
5	A vertically aligned carbon nanotube-based impedance sensing biosensor for rapid and high sensitive detection of cancer cells. Lab on A Chip, 2012, 12, 1183.	3.1	82
6	Cell-Imprinted Substrates Act as an Artificial Niche for Skin Regeneration. ACS Applied Materials & Interfaces, 2014, 6, 13280-13292.	4.0	70
7	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
8	Hotâ€Electronâ€Assisted Femtosecond Allâ€Optical Modulation in Plasmonics. Advanced Materials, 2018, 30, 1704915.	11.1	61
9	Ultrafast Control of Phase and Polarization of Light Expedited by Hot-Electron Transfer. Nano Letters, 2018, 18, 5544-5551.	4.5	60
10	Defect-Mediated Alloying of Monolayer Transition-Metal Dichalcogenides. ACS Nano, 2018, 12, 12795-12804.	7.3	42
11	Lateral and vertical heterostructures in two-dimensional transition-metal dichalcogenides [Invited]. Optical Materials Express, 2019, 9, 1590.	1.6	40
12	Fabrication and modeling of high sensitivity humidity sensors based on doped silicon nanowires. Sensors and Actuators B: Chemical, 2013, 176, 413-419.	4.0	33
13	A Nickelâ€“Gold Bilayer Catalyst Engineering Technique for Self-Assembled Growth of Highly Ordered Silicon Nanotubes (SiNT). Nano Letters, 2013, 13, 889-897.	4.5	27
14	Resonant Light-Induced Heating in Hybrid Cavity-Coupled 2D Transition-Metal Dichalcogenides. ACS Photonics, 2016, 3, 700-707.	3.2	27
15	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
16	Photocarrierâ€Induced Active Control of Secondâ€Order Optical Nonlinearity in Monolayer MoS₂. Small, 2020, 16, e1906347.	5.2	24
17	Strain relaxation via formation of cracks in compositionally modulated two-dimensional semiconductor alloys. Npj 2D Materials and Applications, 2018, 2, .	3.9	23
18	Cell membrane electrical charge investigations by silicon nanowires incorporated field effect transistor (SiNWFET) suitable in cancer research. RSC Advances, 2014, 4, 7425.	1.7	22

#	Article	IF	Citations
19	Evaluation of the shear force of single cancer cells by vertically aligned carbon nanotubes suitable for metastasis diagnosis. Integrative Biology (United Kingdom), 2013, 5, 535-542.	0.6	15
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. Nanoscale, 2015, 7, 1879-1887.	2.8	13
21	Sharp and Tunable Crystal/Fanoâ€Type Resonances Enabled by Outâ€ofâ€Plane Dipolar Coupling in Plasmonic Nanopatch Arrays. Annalen Der Physik, 2018, 530, 1700395.	0.9	9
22	Integration of Ni₂Si/Si Nanograss Heterojunction on n-MOSFET to Realize High-Sensitivity Phototransistors. IEEE Transactions on Electron Devices, 2014, 61, 3239-3244.	1.6	5
23	Lattice Plasmon Induced Large Enhancement of Excitonic Emission in Monolayer Metal Dichalcogenides. Plasmonics, 2017, 12, 1975-1981.	1.8	5
24	Realization of highly crystallographic three-dimensional nanosheets by a stress-induced oriented-diffusion method. Applied Physics Letters, 2014, 105, 043110.	1.5	3
25	The conformal silicon deposition on carbon nanotubes as enabled by hydrogenated carbon coatings for synthesis of carbon/silicon core/shell heterostructure photodiodes. Carbon, 2015, 87, 299-308.	5.4	1
26	Strong light-matter interaction through mode engineering in plasmonic nanoantenna arrays. , 2016, , .		0
27	Enhancement of light-2D material interaction envisioned for energy harvesting applications. , 2017, , .		0
28	Optical Tuning of Second-Order Optical Nonlinearity in Transition Metal Dichalcogenides. , 2020, , .		0