

Mehdi Keshavarz Hedayati

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,618
citations

430874

18
h-index

454955

30
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32
all docs

32
docs citations

32
times ranked

2350
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of a Perfect Black Absorber at Visible Frequencies Using Plasmonic Metamaterials. <i>Advanced Materials</i> , 2011, 23, 5410-5414.	21.0	425
2	Review of Plasmonic Nanocomposite Metamaterial Absorber. <i>Materials</i> , 2014, 7, 1221-1248.	2.9	149
3	Antireflective Coatings: Conventional Stacking Layers and Ultrathin Plasmonic Metasurfaces, A Mini-Review. <i>Materials</i> , 2016, 9, 497.	2.9	119
4	Green chemistry and nanofabrication in a levitated Leidenfrost drop. <i>Nature Communications</i> , 2013, 4, 2400.	12.8	114
5	Review of Metasurface Plasmonic Structural Color. <i>Plasmonics</i> , 2017, 12, 1463-1479.	3.4	108
6	Plasmonic tunable metamaterial absorber as ultraviolet protection film. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	95
7	Tunable broadband plasmonic perfect absorber at visible frequency. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 769-773.	2.3	80
8	A Novel Nanohybrid Nanofibrous Adsorbent for Water Purification from Dye Pollutants. <i>Materials</i> , 2016, 9, 848.	2.9	62
9	The hybrid concept for realization of an ultra-thin plasmonic metamaterial antireflection coating and plasmonic rainbow. <i>Nanoscale</i> , 2014, 6, 6037-6045.	5.6	52
10	Effective Optical Properties of Plasmonic Nanocomposites. <i>Materials</i> , 2014, 7, 727-741.	2.9	50
11	An Omnidirectional Transparent Conductingâ€Metalâ€Based Plasmonic Nanocomposite. <i>Advanced Materials</i> , 2011, 23, 1993-1997.	21.0	44
12	Photoâ€Driven Super Absorber as an Active Metamaterial with a Tunable Molecularâ€Plasmonic Coupling. <i>Advanced Optical Materials</i> , 2014, 2, 705-710.	7.3	38
13	Plasmonic Metaparticles on a Blackbody Create Vivid Reflective Colors for Nakedâ€Eye Environmental and Clinical Biodetection. <i>Advanced Materials</i> , 2018, 30, 1704442.	21.0	38
14	Biodegradable and Insoluble Cellulose Photonic Crystals and Metasurfaces. <i>ACS Nano</i> , 2020, 14, 9502-9511.	14.6	36
15	A deep learning approach to the forward prediction and inverse design of plasmonic metasurface structural color. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	33
16	Plasmon-Mediated Embedding of Nanoparticles in a Polymer Matrix: Nanocomposites Patterning, Writing, and Defect Healing. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17204-17209.	3.1	27
17	Comparison of conventional and active screen plasma nitriding of hard chromium electroplated steel. <i>Vacuum</i> , 2009, 83, 1123-1128.	3.5	24
18	Light-Triggered Control of Plasmonic Refraction and Group Delay by Photochromic Molecular Switches. <i>ACS Photonics</i> , 2015, 2, 1327-1332.	6.6	20

#	ARTICLE	IF	CITATIONS
19	Photoswitchable molecular dipole antennas with tailored coherent coupling in glassy composite. <i>Light: Science and Applications</i> , 2015, 4, e316-e316.	16.6	18
20	Optofluidic Sensor for Inline Hemolysis Detection on Whole Blood. <i>ACS Sensors</i> , 2018, 3, 784-791.	7.8	18
21	Photoresponsive Transparent Conductive Metal with a Photobleaching Nose. <i>Advanced Materials</i> , 2011, 23, 4243-4247.	21.0	17
22	Broadband Anti-Reflective Coating Based on Plasmonic Nanocomposite. <i>Materials</i> , 2016, 9, 636.	2.9	16
23	Digital resonant laser printing: Bridging nanophotonic science and consumer products. <i>Nano Today</i> , 2018, 19, 7-10.	11.9	14
24	Multifunctional waveguide interferometer sensor: simultaneous detection of refraction and absorption with size-exclusion function. <i>Optics Express</i> , 2018, 26, 24372.	3.4	9
25	Solar Aluminum Kitchen Foils with Omnidirectional Vivid Polarizonic Colors. <i>Advanced Optical Materials</i> , 2019, 7, 1900737.	7.3	5
26	Metamaterials: Photo-driven Super Absorber as an Active Metamaterial with a Tunable Molecular-Plasmonic Coupling (<i>Advanced Optical Materials</i> 8/2014). <i>Advanced Optical Materials</i> , 2014, 2, 704-704.	7.3	2
27	Inverse Design of Distributed Bragg Reflectors Using Deep Learning. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4877.	2.5	2
28	Perfect Plasmonic Absorber: Design of a Perfect Black Absorber at Visible Frequencies Using Plasmonic Metamaterials (<i>Adv. Mater.</i> 45/2011). <i>Advanced Materials</i> , 2011, 23, 5409-5409.	21.0	1
29	Reawakening of plasmonic nanocomposites with the polarizonic reflective coloration: from metal to molecules. <i>Frontiers of Nanoscience</i> , 2020, , 185-214.	0.6	1
30	Specular Reflections: Plasmonic Metaparticles on a Blackbody Create Vivid Reflective Colors for Naked-Eye Environmental and Clinical Biodetection (<i>Adv. Mater.</i> 4/2018). <i>Advanced Materials</i> , 2018, 30, 1870026.	21.0	0
31	Solar Colored Kitchen Foil: Solar Aluminum Kitchen Foils with Omnidirectional Vivid Polarizonic Colors (<i>Advanced Optical Materials</i> 15/2019). <i>Advanced Optical Materials</i> , 2019, 7, 1970058.	7.3	0