

Taavi Repõn

List of Publications by Year in descending order

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374
citing authors

#	ARTICLE	IF	CITATIONS
1	Midinfrared Surface Waves on a High Aspect Ratio Nanotrench Platform. ACS Photonics, 2017, 4, 2899-2907.	6.6	57
2	High Aspect Ratio Plasmonic Nanotrench Structures with Large Active Surface Area for Label-Free Mid-Infrared Molecular Absorption Sensing. ACS Applied Nano Materials, 2018, 1, 1212-1218.	5.0	48
3	Dark-field hyperlens: Super-resolution imaging of weakly scattering objects. Optics Express, 2015, 23, 25350.	3.4	25
4	Boosting Light Emission from Single Hydrogen Phthalocyanine Molecules by Charging. Nano Letters, 2020, 20, 7600-7605.	9.1	24
5	Increased Efficiency inside the CdTe Solar Cell Absorber Caused by Plasmonic Metal Nanoparticles. Energy Procedia, 2014, 44, 229-233.	1.8	12
6	Optical reconfiguration and polarization control in semi-continuous gold films close to the percolation threshold. Nanoscale, 2017, 9, 12014-12024.	5.6	11
7	Artificial neural networks used to retrieve effective properties of metamaterials. Optics Express, 2021, 29, 36072.	3.4	10
8	Hyperbolic surface waves on anisotropic materials without hyperbolic dispersion. Optics Express, 2020, 28, 33176.	3.4	7
9	Subwavelength Hyperlens Resolution With Perfect Contrast Function. Annalen Der Physik, 2018, 530, 1700300.	2.4	6
10	Pseudocanalization regime for magnetic dark-field hyperlenses. Physical Review B, 2017, 96, .	3.2	5
11	Influence of Co bilayers and trilayers on the plasmon-driven light emission from Cu(111) in a scanning tunneling microscope. Physical Review B, 2020, 101, .	3.2	5
12	Lower limits for the homogenization of periodic metamaterials made from electric dipolar scatterers. Physical Review B, 2021, 103, .	3.2	5
13	Wave Front Tuning of Coupled Hyperbolic Surface Waves on Anisotropic Interfaces. Photonics, 2020, 7, 34.	2.0	4
14	CuInS2 solar cell absorber plasmonically modified by gold nanoparticles. Applied Physics A: Materials Science and Processing, 2014, 117, 455-458.	2.3	3
15	Extreme renormalisations of dimer eigenmodes by strong light-matter coupling. New Journal of Physics, 2020, 22, 103001.	2.9	3
16	Gold micro- and nano-particles for surface enhanced vibrational spectroscopy of pyridostigmine bromide. Vibrational Spectroscopy, 2017, 88, 71-76.	2.2	2
17	Surface waves on metal-dielectric metamaterials. , 2016, , .		1
18	Dark-field hyperlens for high-contrast sub-wavelength imaging. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
19	Numerical simulations of nanostructured gold films. , 2017, , .		0
20	High Aspect Plasmonic Nanotrench Structures as Sensors in the Near- and Mid-IR Frequency Range. , 2018, , .		0
21	Pseudocanalization regime for surface waves. , 2018, , .		0
22	Lamellas Metamaterials: Properties and Potential Applications. , 2019, , .		0
23	Pseudocanalizing propagation with hyperbolic surface waves. , 2018, , .		0
24	Aluminum-doped Zinc Oxide Trench Hyperbolic Metamaterial as a Mid-infrared Sensing Platform. , 2018, , .		0