Xinchao Lu

List of Publications by Year
in descending order

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27 papers	578 citations	623734 14 h-index	610901 24 g-index
27 all docs	27 docs citations	27 times ranked	659 citing authors

#	Article	IF	Citations
1	Alkanethiol-functionalized terahertz metamaterial as label-free, highly-sensitive and specificbiosensor. Biosensors and Bioelectronics, 2013, 42, 626-631.	10.1	128
2	Broadband resonant terahertz transmission in a composite metal-dielectric structure. Optics Express, 2009, 17, 16527.	3.4	71
3	A close-ring pair terahertz metamaterial resonating at normal incidence. Optics Express, 2009, 17, 20307.	3.4	65
4	Magnetic and magnetothermal tunabilities of subwavelength-hole arrays in a semiconductor sheet. Optics Letters, 2009, 34, 1465.	3.3	42
5	Terahertz Dielectric Properties of MgO Nanocrystals. Journal of Physical Chemistry C, 2008, 112, 17512-17516.	3.1	41
6	Resonant terahertz reflection of periodic arrays of subwavelength metallic rectangles. Applied Physics Letters, 2008, 92, 121103.	3.3	36
7	Surface plasmon enhanced terahertz spectroscopic distinguishing between isotopes. Chemical Physics Letters, 2009, 475, 132-134.	2.6	23
8	Terahertz emission from semi-insulating GaAs with octadecanthiol-passivated surface. Applied Surface Science, 2013, 279, 92-96.	6.1	23
9	Effect of inhomogeneity and plasmons on terahertz radiation from GaAs (100) surface coated with rough Au film. Applied Surface Science, 2013, 285, 853-857.	6.1	21
10	Terahertz localized plasmonic properties of subwavelength ring and coaxial geometries. Applied Physics Letters, 2009, 94, 181106.	3.3	20
11	Large dynamic resonance transition between surface plasmon and localized surface plasmon modes. Optics Express, 2010, 18, 12482.	3.4	19
12	Role of mode coupling on transmission properties of subwavelength composite hole-patch structures. Applied Physics Letters, 2010, 96, 251102.	3.3	16
13	Ultrafast carrier dynamics and optical properties of nanoporous silicon at terahertz frequencies. Optical Materials Express, 2014, 4, 300.	3.0	15
14	Transmission field enhancement of terahertz pulses in plasmonic, rectangular coaxial geometries. Optics Letters, 2010, 35, 904.	3.3	14
15	Detecting a single nanoparticle by imaging the localized enhancement and interference of surface plasmon polaritons. Optics Letters, 2019, 44, 5707.	3.3	14
16	Effects of nanoparticle sizes, shapes, and permittivity on plasmonic imaging. Optics Express, 2022, 30, 6051.	3.4	7
17	Imaging to single virus by using surface plasmon polariton scattering. Proceedings of SPIE, 2017, , .	0.8	6
18	Locally excited surface plasmon resonance for refractive index sensing with high sensitivity and high resolution. Optics Letters, 2021, 46, 3625.	3.3	3

#	Article	IF	Citations
19	Detecting the morphology of single graphene sheets by dual channel sampling plasmonic imaging. Optics Express, 2020, 28, 4686.	3.4	3
20	Reviewâ€"Advances in Surface Plasmon Resonance Microscopy and Its Applications to Single Cells, Viruses, and Molecules. Journal of the Electrochemical Society, 2022, 169, 077515.	2.9	3
21	Label-Free Imaging of Single Nanoparticles Using Total Internal Reflection-Based Leakage Radiation Microscopy. Nanomaterials, 2020, 10, 615.	4.1	2
22	Influence of Refractive Index to Plasmonic Interferometric Imaging. IEEE Photonics Journal, 2021, 13, 1-7.	2.0	2
23	Advanced Label-Free Laser Scanning Microscopy and Its Biological Imaging Application. Applied Sciences (Switzerland), 2021, 11, 1002.	2.5	1
24	The Localized Enhancement of Surface Plasmon Standing Waves Interacting with Single Nanoparticles. Plasmonics, 0, , 1.	3.4	1
25	Detecting a single nanoparticle by imaging the localized enhancement and interference of surface plasmon polaritons: erratum. Optics Letters, 2020, 45, 917.	3.3	1
26	The Role of Non-resonant Effect in Terahertz Transmission through Subwavelength Holes. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2008, 4, 481-484.	0.4	1
27	Manipulating the surface plasmon propagation by single hollow nanoparticle. , 2020, , .		0