Mao-Kuen Kuo

List of Publications by Year
in descending order

59 papers	631 citations	567281 15 h-index	642732 23 g-index
60 all docs	60 docs citations	60 times ranked	497 citing authors

#	Article	IF	Citations
1	Winding Poynting vector of light around plasmonic nanostructure. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 278, 108005.	2.3	3
2	Laser-Induced Plasmonic Nanobubbles and Microbubbles in Gold Nanorod Colloidal Solution. Nanomaterials, 2022, 12, 1154.	4.1	5
3	Conversion of a Helical Surface Plasmon Polariton into a Spiral Surface Plasmon Polariton at the Outlet of a Metallic Nanohole. ACS Omega, 2022, 7, 10420-10428.	3.5	4
4	Surface plasmon polaritons of higher-order mode and standing waves in metallic nanowires. Optics Express, 2021, 29, 18876.	3.4	8
5	Plasmon-Enhanced Photothermal and Optomechanical Deformations of a Gold Nanoparticle. Nanomaterials, 2020, 10, 1881.	4.1	3
6	Light-driven self-organization of gold clusters by linearly polarized Gaussian beam. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 233, 35-41.	2.3	0
7	Hybrid photonicâ€“plasmonic crystal nanocavity sensors. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	1
8	Light-driven self-assembly of hetero-shaped gold nanorods. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	1
9	Plasmon-enhanced optical bending and heating on V-shaped deformation of gold nanorod. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	2
10	Spin and Orbital Rotation of Plasmonic Dimer Driven by Circularly Polarized Light. Nanoscale Research Letters, 2018, 13, 322.	5.7	11
11	3D Optical Vortex Trapping of Plasmonic Nanostructure. Scientific Reports, 2018, 8, 12673.	3.3	15
12	Wavelength-Dependent Plasmon-Mediated Coalescence of Two Gold Nanorods. Scientific Reports, 2017, 7, 46095.	3.3	8
13	GaAsSb spacer effect in quasi-type-II InAs coupled-QDs for intraband absorption enhancement. Optical Materials Express, 2017, 7, 1351.	3.0	7
14	Light-driven self-assembly of two gold nanorods. , 2016, , .		0
15	Maxwell stress induced optical torque upon gold prolate nanospheroid. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	7
16	Metal-Enhanced Fluorescence of Silver Island Associated with Silver Nanoparticle. Nanoscale Research Letters, 2016, 11, 26.	5.7	14
17	Spinning gold nanoparticles driven by circularly polarized light. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 175, 46-53.	2.3	20
18	Plasmon-mediated binding forces on gold or silver homodimer and heterodimer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 170, 150-158.	2.3	16

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19	Plasmon-mediated excitation modulation of FRET by silver nanoshell. Microelectronic Engineering, 2015, 138, 122-127.	2.4	2
20	Theoretical study of optical torques for aligning Ag nanorods and nanowires. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 162, 133-142.	2.3	20
21	Wavelength-dependent longitudinal polarizability of gold nanorod on optical torques. Optics Express, 2014, 22, 10858.	3.4	33
22	Metal enhanced fluorescence of Ag-nanoshell dimer. Applied Physics A: Materials Science and Processing, 2014, 115, 45-52.	2.3	8
23	Comparison of Au and Ag nanoshells×3 metal-enhanced fluorescence. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 321-330.	2.3	17
24	Rotating Au nanorod and nanowire driven by circularly polarized light. Optics Express, 2014, 22, 26005.	3.4	21
25	Plasmonic Fano resonance and dip of Au-SiO2-Au nanomatryoshka. Nanoscale Research Letters, 2013, 8, 468.	5.7	20
26	Effect of piezoelectric constants in electronic structures of InGaN quantum dots. Semiconductor Science and Technology, 2013, 28, 105006.	2.0	7
27	Longitudinal Plasmon Modes of Ag Nanorod Coupled with a Pair of Quantum Dots. Journal of Nanoscience and Nanotechnology, 2013, 13, 6627-6634.	0.9	3
28	Longitudinal plasmon modes of gold nanorod. , 2012, , .		0
29	Subwavelength Fabry-Perot resonator: a pair of quantum dots incorporated with gold nanorod. Nanoscale Research Letters, 2012, 7, 546.	5.7	10
30	Fully coupled piezoelectric models on the optical properties of InGaN quantum dots. Proceedings of SPIE, 2011, , .	0.8	0
31	Dual-Band Plasmonic Enhancement of Ag-NS@SiO2 on Gain Mediumâ€™s Spontaneous Emission. Plasmonics, 2011, 6, 673-680.	3.4	10
32	Average Enhancement Factor of Molecules-Doped Coreshell on Fluorescence. , 2011, , .		0
33	Effects of composition distribution on electronic structures of self-assembled InGaN/GaN quantum dots. Physica Status Solidi (B): Basic Research, 2010, 247, 1764-1768.	1.5	4
34	Influence of the piezoelectric constant on the electronic structure of wurtzite InGaN quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2214-2217.	0.8	0
35	Fully coupled and semi-coupled piezoelectric models on the optical properties of InGaN quantum dots. Semiconductor Science and Technology, 2010, 25, 065005.	2.0	7
36	Influence of wetting layers on the electric potentials and optical properties of InGaN quantum dots. Semiconductor Science and Technology, 2010, 25, 115015.	2.0	1

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37	Average enhancement factor of molecules-doped coreshell (Ag@SiO_2) on fluorescence. Optics Express, 2010, 18, 12788.	3.4	18
38	Effects of Segregation on the Strain Fields and Electronic Structures of InAs Quantum Dots. , 2009, , .		1
39	Purcell effect of nanoshell dimer on single moleculeâ€™s fluorescence. Optics Express, 2009, 17, 13532.	3.4	74
40	Influences of template layer thickness on strain fields and transition energies in self-assembled SiGeâˆ•Si quantum dots. Journal of Applied Physics, 2008, 103, 073705.	2.5	8
41	Strain Fields and Transition Energies in Multilayer InAs/GaAs Quantum Dots. , 2008, , .		0
42	Two-step strain analysis of self-assembled InAs/GaAs quantum dots. Semiconductor Science and Technology, 2006, 21, 626-632.	2.0	22
43	Strain effects on optical properties of pyramidal InAs/GaAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 26, 199-202.	2.7	10
44	Plasmon Resonances of Spherical and Ellipsoidal Nanoparticles. Journal of Electromagnetic Waves and Applications, 2005, 19, 1787-1794.	1.6	27
45	2D Simulation of Surface Plasmon Resonance. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2005, 1, 441-444.	0.4	0
46	Inversion of Residual Stress. Journal of Mechanics, 2001, 17, 103-108.	1.4	1
47	Scan of surface-opening cracks in reinforced concrete using transient elastic waves. NDT and E International, 2001, 34, 219-226.	3.7	23
48	Analysis of eddy currents in a bar containing an embedded defect. NDT and E International, 1999, 32, 293-303.	3.7	2
49	Locating the crack tip of a surface-breaking crack Part I. Line crack. Ultrasonics, 1998, 36, 803-811.	3.9	23
50	Wavenumber formulation for V(z) curves of line-focus acoustic microscopy. Ultrasonics, 1996, 34, 327-329.	3.9	0
51	Determination of elastic constants of a concrete specimen using transient elastic waves. Journal of the Acoustical Society of America, 1995, 98, 2142-2148.	1.1	40
52	Stress intensity factors for a semi-infinite plane crack under a pair of point forces on the faces. Journal of Elasticity, 1993, 30, 197-209.	1.9	8
53	Transient stress intensity factors for a cracked plane strip under anti-plane point forces. International Journal of Engineering Science, 1992, 30, 199-211.	5.0	6
54	The Wiener-Hopf technique in elastodynamic crack problems with characteristic lengths in loading. Engineering Fracture Mechanics, 1992, 42, 805-813.	4.3	10

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55	Elastodynamic responses due to anti-plane point impact loadings on the faces of an interface crack along dissimilar anisotropic materials. International Journal of Solids and Structures, 1991, 28, 751-768.	2.7	15
56	Conditions for crack kinking under stress-wave loading. Engineering Fracture Mechanics, 1985, 22, 165-180.	4.3	6
57	Perturbation method to analyze the elastodynamic field near a kinked crack. International Journal of Solids and Structures, 1985, 21, 273-278.	2.7	3
58	Mode III and mixed mode Iâ€“II crack kinking under stress-wave loading. International Journal of Solids and Structures, 1984, 20, 395-410.	2.7	13
59	Mode-III crack kinking under stress-wave loading. Wave Motion, 1982, 4, 181-190.	2.0	33