

# Mao-Kuen Kuo

## List of Publications by Year in descending order

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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	Purcell effect of nanoshell dimer on single molecule's fluorescence. Optics Express, 2009, 17, 13532.	3.4	74
2	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
3	Mode-III crack kinking under stress-wave loading. Wave Motion, 1982, 4, 181-190.	2.0	33
4	Wavelength-dependent longitudinal polarizability of gold nanorod on optical torques. Optics Express, 2014, 22, 10858.	3.4	33
5	Plasmon Resonances of Spherical and Ellipsoidal Nanoparticles. Journal of Electromagnetic Waves and Applications, 2005, 19, 1787-1794.	1.6	27
6	Locating the crack tip of a surface-breaking crack Part I. Line crack. Ultrasonics, 1998, 36, 803-811.	3.9	23
7	Scan of surface-opening cracks in reinforced concrete using transient elastic waves. NDT and E International, 2001, 34, 219-226.	3.7	23
8	Two-step strain analysis of self-assembled InAs/GaAs quantum dots. Semiconductor Science and Technology, 2006, 21, 626-632.	2.0	22
9	Rotating Au nanorod and nanowire driven by circularly polarized light. Optics Express, 2014, 22, 26005.	3.4	21
10	Plasmonic Fano resonance and dip of Au-SiO <sub>2</sub> -Au nanomaterial. Nanoscale Research Letters, 2013, 8, 468.	5.7	20
11	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
12	Spinning gold nanoparticles driven by circularly polarized light. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 175, 46-53.	2.3	20
13	Average enhancement factor of molecules-doped core-shell (Ag@SiO <sub>2</sub> ) on fluorescence. Optics Express, 2010, 18, 12788.	3.4	18
14	Comparison of Au and Ag nanoshells' metal-enhanced fluorescence. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 321-330.	2.3	17
15	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
16	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
17	3D Optical Vortex Trapping of Plasmonic Nanostructure. Scientific Reports, 2018, 8, 12673.	3.3	15
18	Metal-Enhanced Fluorescence of Silver Island Associated with Silver Nanoparticle. Nanoscale Research Letters, 2016, 11, 26.	5.7	14

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19	Mode III and mixed mode II crack kinking under stress-wave loading. International Journal of Solids and Structures, 1984, 20, 395-410.	2.7	13
20	Spin and Orbital Rotation of Plasmonic Dimer Driven by Circularly Polarized Light. Nanoscale Research Letters, 2018, 13, 322.	5.7	11
21	The Wiener-Hopf technique in elastodynamic crack problems with characteristic lengths in loading. Engineering Fracture Mechanics, 1992, 42, 805-813.	4.3	10
22	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
23	Dual-Band Plasmonic Enhancement of Ag-NS@SiO <sub>2</sub> on Gain Medium's Spontaneous Emission. Plasmonics, 2011, 6, 673-680.	3.4	10
24	Subwavelength Fabry-Perot resonator: a pair of quantum dots incorporated with gold nanorod. Nanoscale Research Letters, 2012, 7, 546.	5.7	10
25	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
26	Influences of template layer thickness on strain fields and transition energies in self-assembled SiGe/Si quantum dots. Journal of Applied Physics, 2008, 103, 073705.	2.5	8
27	Metal enhanced fluorescence of Ag-nanoshell dimer. Applied Physics A: Materials Science and Processing, 2014, 115, 45-52.	2.3	8
28	Wavelength-Dependent Plasmon-Mediated Coalescence of Two Gold Nanorods. Scientific Reports, 2017, 7, 46095.	3.3	8
29	Surface plasmon polaritons of higher-order mode and standing waves in metallic nanowires. Optics Express, 2021, 29, 18876.	3.4	8
30	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
31	Effect of piezoelectric constants in electronic structures of InGaN quantum dots. Semiconductor Science and Technology, 2013, 28, 105006.	2.0	7
32	Maxwell stress induced optical torque upon gold prolate nanospheroid. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	7
33	GaAsSb spacer effect in quasi-type-II InAs coupled-QDs for intraband absorption enhancement. Optical Materials Express, 2017, 7, 1351.	3.0	7
34	Conditions for crack kinking under stress-wave loading. Engineering Fracture Mechanics, 1985, 22, 165-180.	4.3	6
35	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
36	Laser-Induced Plasmonic Nanobubbles and Microbubbles in Gold Nanorod Colloidal Solution. Nanomaterials, 2022, 12, 1154.	4.1	5

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37	Effects of composition distribution on electronic structures of self-assembled InGaN/GaN quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1764-1768.	1.5	4
38	Conversion of a Helical Surface Plasmon Polariton into a Spiral Surface Plasmon Polariton at the Outlet of a Metallic Nanohole. <i>ACS Omega</i> , 2022, 7, 10420-10428.	3.5	4
39	Perturbation method to analyze the elastodynamic field near a kinked crack. <i>International Journal of Solids and Structures</i> , 1985, 21, 273-278.	2.7	3
40	Longitudinal Plasmon Modes of Ag Nanorod Coupled with a Pair of Quantum Dots. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 6627-6634.	0.9	3
41	Plasmon-Enhanced Photothermal and Optomechanical Deformations of a Gold Nanoparticle. <i>Nanomaterials</i> , 2020, 10, 1881.	4.1	3
42	Winding Poynting vector of light around plasmonic nanostructure. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 278, 108005.	2.3	3
43	Analysis of eddy currents in a bar containing an embedded defect. <i>NDT and E International</i> , 1999, 32, 293-303.	3.7	2
44	Plasmon-mediated excitation modulation of FRET by silver nanoshell. <i>Microelectronic Engineering</i> , 2015, 138, 122-127.	2.4	2
45	Plasmon-enhanced optical bending and heating on V-shaped deformation of gold nanorod. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	2
46	Inversion of Residual Stress. <i>Journal of Mechanics</i> , 2001, 17, 103-108.	1.4	1
47	Effects of Segregation on the Strain Fields and Electronic Structures of InAs Quantum Dots. , 2009, , .		1
48	Influence of wetting layers on the electric potentials and optical properties of InGaN quantum dots. <i>Semiconductor Science and Technology</i> , 2010, 25, 115015.	2.0	1
49	Hybrid photonicâ€“plasmonic crystal nanocavity sensors. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	1
50	Light-driven self-assembly of hetero-shaped gold nanorods. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	1
51	Wavenumber formulation for $V(z)$ curves of line-focus acoustic microscopy. <i>Ultrasonics</i> , 1996, 34, 327-329.	3.9	0
52	Strain Fields and Transition Energies in Multilayer InAs/GaAs Quantum Dots. , 2008, , .		0
53	Influence of the piezoelectric constant on the electronic structure of wurtzite InGaN quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 2214-2217.	0.8	0
54	Fully coupled piezoelectric models on the optical properties of InGaN quantum dots. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0

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55	Longitudinal plasmon modes of gold nanorod. , 2012, , .		0
56	Light-driven self-assembly of two gold nanorods. , 2016, , .		0
57	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
58	2D Simulation of Surface Plasmon Resonance. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2005, 1, 441-444.	0.4	0
59	Average Enhancement Factor of Molecules-Doped Coreshell on Fluorescence. , 2011, , .		0