

Juan-Carlos Cheang-Wong

List of Publications by Year in descending order

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88
papers

1,126
citations

393982

19
h-index

476904

29
g-index

88
all docs

88
docs citations

88
times ranked

944
citing authors

#	ARTICLE	IF	CITATIONS
1	Systematic preparation of high-quality colloidal silica particles by sol-gel synthesis using reagents at low temperature. International Journal of Applied Glass Science, 2022, 13, 54-62.	1.0	4
2	Third-order nonlinear optical response of ion-implanted embedded arrays of plasmonic gold nanoparticles. Optical Materials, 2021, 111, 110616.	1.7	3
3	Optical characterization of nanostructured FeSi_2 layers obtained by Fe implantation. Journal Physics D: Applied Physics, 2021, 54, 025105.	1.3	0
4	Coupling effects and ultrafast third-order nonlinear optical behavior in ion-implanted silicon quantum dots and platinum nanoclusters. Optical Materials, 2019, 97, 109388.	1.7	8
5	Fabrication and Characterization of Surface-enhanced Raman Scattering Substrates With Ordered Arrays of Gold Nanopyramids By Means of Nanosphere Lithography. Materials Express, 2019, 9, 141-149.	0.2	8
6	Superlinear Photoluminescence by Ultrafast Laser Pulses in Dielectric Matrices with Metal Nanoclusters. Scientific Reports, 2019, 9, 5699.	1.6	19
7	Silver films over silica microspheres (AgFOSM) as SERS substrates. Photonics and Nanostructures - Fundamentals and Applications, 2018, 28, 81-87.	1.0	12
8	Photothermally Activated Two-Photon Absorption in Ion-Implanted Silicon Quantum Dots in Silica Plates. Journal of Nanomaterials, 2018, 2018, 1-8.	1.5	7
9	Coexistence of two-photon absorption and saturable absorption in ion-implanted platinum nanoparticles in silica plates. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1295.	0.9	16
10	Nanoscale influence on photoluminescence and third order nonlinear susceptibility exhibited by ion-implanted Pt nanoparticles in silica. Methods and Applications in Fluorescence, 2017, 5, 025001.	1.1	10
11	Ultrafast third-order nonlinear ultraviolet response exhibited by ion-implanted silicon nanoparticles in silica. , 2017, , .		0
12	Ultraviolet Self-Diffraction Effects Exhibited by Ion-Implanted Au Nanoparticles in Silica. , 2017, , .		0
13	Third-Order Nonlinear Ultraviolet Response of Ion-implanted Platinum Nanoparticles in Silica. , 2016, , .		0
14	Structured strengthening by two-wave optical ablation in silica with gold nanoparticles. Optics and Laser Technology, 2015, 75, 115-122.	2.2	10
15	Ion-Beam Modification of Colloidal Silica Particle Masks to Tailor the Size of Ordered Arrays of Ag Nanostructures Produced by Nanosphere Lithography. Materials Research Society Symposia Proceedings, 2014, 1712, 51.	0.1	2
16	Tunable nanometer electrode gaps by MeV ion irradiation. Applied Physics Letters, 2012, 100, 153108.	1.5	3
17	On the physical contributions to the third-order nonlinear optical response in plasmonic nanocomposites. Journal of Optics (United Kingdom), 2012, 14, 125203.	1.0	22
18	Enhancement and quenching of photoluminescence from silicon quantum dots by silver nanoparticles in a totally integrated configuration. AIP Advances, 2012, 2, .	0.6	10

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19	Chemical spray pyrolysis deposited fluorine-doped zinc oxide thin films: Effect of acetic acid content in the starting solution on the physical properties. <i>Materials Science in Semiconductor Processing</i> , 2012, 15, 232-239.	1.9	14
20	Nonlinear optical spectroscopy of isotropic and anisotropic metallic nanocomposites. <i>Journal of Physics: Conference Series</i> , 2011, 274, 012074.	0.3	5
21	Enhancement of the optical Kerr effect exhibited by an integrated configuration of silicon quantum dots and silver nanoparticles. <i>Journal of Physics: Conference Series</i> , 2011, 274, 012145.	0.3	4
22	Ultrafast optical phase modulation with metallic nanoparticles in ion-implanted bilayer silica. <i>Nanotechnology</i> , 2011, 22, 355710.	1.3	24
23	Femto-, pico- and nano-second refractive nonlinearities exhibited by Au nanoparticles. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
24	High stability of the crystalline configuration of Au nanoparticles embedded in silica under ion and electron irradiation. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1787-1795.	0.8	22
25	Ablation and optical third-order nonlinearities in Ag nanoparticles. <i>International Journal of Nanomedicine</i> , 2010, 5, 925.	3.3	24
26	Elongated Gold Nanoparticles Obtained by Ion Implantation in Silica: Characterization and T-Matrix Simulations. <i>Journal of Physical Chemistry C</i> , 2010, 114, 746-751.	1.5	27
27	Tuning the aspect ratio of silver nanospheroids embedded in silica. <i>Optics Letters</i> , 2010, 35, 703.	1.7	17
28	GISAXS Size Distribution Characterization of Cu Nanoparticles Embedded in silica. , 2009, , .		1
29	Large and anisotropic third-order nonlinear optical response from anisotropy-controlled metallic nanocomposites. <i>Optics Communications</i> , 2009, 282, 4157-4161.	1.0	15
30	Dynamic annealing study of SiC epilayers implanted with Ni ions at different temperatures. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 1097-1100.	0.6	3
31	Anisotropy in the nonlinear absorption of elongated silver nanoparticles in silica, probed by femtosecond pulses. <i>Optics Communications</i> , 2009, 282, 1909-1912.	1.0	30
32	Anisotropic linear and nonlinear optical properties from anisotropy-controlled metallic nanocomposites. <i>Optics Express</i> , 2009, 17, 12849.	1.7	42
33	Determination of the size distribution of metallic nanoparticles by optical extinction spectroscopy. <i>Applied Optics</i> , 2009, 48, 566.	2.1	29
34	Formation of Au~Ag Core~Shell Nanostructures in Silica Matrix by Sequential Ion Implantation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2296-2300.	1.5	38
35	MeV Si ion irradiation effects on the optical absorption properties of metallic nanoparticles embedded in silica. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 3138-3142.	0.6	12
36	Dependence of the MeV ion-induced deformation of colloidal silica particles on the irradiation angle. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 3162-3165.	0.6	8

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37	Large optical birefringence by anisotropic silver nanocomposites. Optics Express, 2008, 16, 710.	1.7	44
38	Synthesis and characterization of colloidal titania nanoparticles. Materials Research Society Symposia Proceedings, 2008, 1074, 1.	0.1	0
39	Shape deformation of colloidal titania nanoparticles by means of ion irradiation. Materials Research Society Symposia Proceedings, 2008, 1087, 32601.	0.1	0
40	Optical third-order nonlinearity by nanosecond and picosecond pulses in Cu nanoparticles in ion-implanted silica. Journal of Applied Physics, 2008, 104, .	1.1	32
41	Formation of nanometer-scale structures in SiO ₂ thin films by means of MeV-ion irradiation. Radiation Effects and Defects in Solids, 2007, 162, 247-258.	0.4	4
42	Absorptive and refractive nonlinearities by four-wave mixing for Au nanoparticles in ion-implanted silica. Optics Express, 2007, 15, 9248.	1.7	17
43	Deformation of colloidal silica particles using MeV Si ion irradiation. Journal of Non-Crystalline Solids, 2007, 353, 1925-1929.	1.5	6
44	Fluorine content of SiOF films as determined by IR spectroscopy and resonant nuclear reaction analysis. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 448-454.	0.9	2
45	Metal and metal oxide nanoparticles produced by ion implantation in silica: A microstructural study using HRTEM. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 99-103.	0.6	3
46	Composition and morphological characteristics of chemically sprayed fluorine-doped zinc oxide thin films deposited on Si(100). Physica B: Condensed Matter, 2007, 390, 10-16.	1.3	11
47	Controlled anisotropic deformation of Ag nanoparticles by Si ion irradiation. Physical Review B, 2006, 74, .	1.1	118
48	Characterization of nanocluster formation in Cu-implanted silica: Influence of the annealing atmosphere and the ion fluence. Journal of Non-Crystalline Solids, 2006, 352, 349-354.	1.5	10
49	MeV ion beam deformation of colloidal silica particles. Nuclear Instruments & Methods in Physics Research B, 2006, 242, 452-454.	0.6	18
50	Influence of indium concentration and substrate temperature on the physical characteristics of chemically sprayed ZnO:In thin films deposited from zinc pentanedionate and indium sulfate. Journal of Physics Condensed Matter, 2006, 18, 5105-5120.	0.7	9
51	RBS-Channeling and EPR Studies of Damage in 2 MeV Al ²⁺ -Implanted 6H-SiC Substrates. Materials Science Forum, 2005, 483-485, 291-294.	0.3	2
52	Role of hydrogen on the deposition and properties of fluorinated silicon-nitride films prepared by inductively coupled plasma enhanced chemical vapor deposition using SiF ₄ •N ₂ •H ₂ mixtures. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 248-255.	0.9	8
53	Modification of the optical properties of Ag-implanted silica by annealing in two different atmospheres. Journal of Applied Physics, 2004, 95, 1783-1791.	1.1	40
54	High energy ion irradiation induced surface roughening in Ag and Cu films. Applied Surface Science, 2003, 206, 178-186.	3.1	7

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55	Thermal spikes in Ag/Fe and Cu/Fe ion beam mixing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 100, 297-303.	1.7	13
56	Silicon nanocrystals and defects produced by silicon and silicon-and-gold implantation in silica. <i>Journal of Applied Physics</i> , 2003, 93, 10110-10113.	1.1	10
57	RBS characterization of MgB ₂ superconducting films annealed <i>in situ</i> . <i>Superconductor Science and Technology</i> , 2003, 16, 879-884.	1.8	7
58	Metallic nanoparticle formation in ion-implanted silica after thermal annealing in reducing or oxidizing atmospheres. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 191, 333-336.	0.6	28
59	Relationship between the Ag depth profiles and nanoparticle formation in Ag-implanted silica. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 10207-10219.	0.7	12
60	Study of the fluorine content in precursor and Tl-based thin films by resonant nuclear reaction method. <i>Physica C: Superconductivity and Its Applications</i> , 2001, 354, 353-357.	0.6	4
61	RBS-channeling studies on damage production by MeV ion implantation in Si(111) wafers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001, 84, 205-210.	1.7	3
62	Optical properties of Ir ²⁺ -implanted silica glass. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001, 175-177, 490-494.	0.6	36
63	Optical absorption and emission studies of 2 MeV Cu-implanted silica glass. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001, 175-177, 495-499.	0.6	22
64	Ion beam studies of Tl-based superconducting films prepared from fluorides. <i>Superconductor Science and Technology</i> , 2001, 14, 90-95.	1.8	3
65	Fluorinated and chlorinated SiO ₂ films prepared at low temperature by remote plasma-enhanced chemical-vapor deposition using mixtures of SiF ₄ and SiCl ₄ . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001, 19, 507-514.	0.9	14
66	Rutherford backscattering analysis of Bi-based superconducting films. <i>Thin Solid Films</i> , 2000, 373, 117-121.	0.8	4
67	Preparation and properties of precursor Ba-Ca-Cu(O, F) thin films deposited from fluorides for superconducting Tl- and Hg-based films. <i>Thin Solid Films</i> , 2000, 373, 129-133.	0.8	6
68	E ⁺ and B ²⁺ center production in amorphous quartz by MeV Si and Au ion implantation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 78, 32-38.	1.7	11
69	Dependence of the optical properties on the ion implanted depth profiles in fused quartz after a sequential implantation with Si and Au ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000, 161-163, 1058-1063.	0.6	10
70	Effect of thermal annealing on the optical properties of high-energy Cu-implanted silica glass. <i>Journal of Non-Crystalline Solids</i> , 2000, 275, 65-71.	1.5	22
71	Tl-Based Superconducting Films Prepared by Spray Pyrolysis and Vacuum Evaporation. <i>Journal of Superconductivity and Novel Magnetism</i> , 1998, 11, 63-64.	0.5	1
72	Use of linear magnetrons for the fabrication of aluminum first-surface solar mirrors. <i>Solar Energy Materials and Solar Cells</i> , 1998, 52, 231-238.	3.0	5

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73	Correlation between the Tl concentration depth profiles and the thallination time in Tl—Ba—Ca—Cu—O superconducting films. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 1300-1305.	0.6	1
74	Study of the optical properties of fused quartz after a sequential implantation with Si and Au ions. Applied Physics Letters, 1998, 73, 1574-1576.	1.5	8
75	Ion beam analysis of HTc superconducting Tl-based films. Nuclear Instruments & Methods in Physics Research B, 1997, 122, 677-684.	0.6	6
76	Correlation between optical properties, composition, and deposition parameters in pulsed laser deposited LiNbO3 films. Applied Physics Letters, 1995, 66, 1452-1454.	1.5	21
77	High temperature <i>in situ</i> growth by cathodic sputtering of fully oxygenated YBaCuO thin films. Physica C: Superconductivity and Its Applications, 1994, 235-240, 649-650.	0.6	4
78	Contribution of IBA techniques to the study of YBaCuO thin films with anomalous c-axis lattice parameter. Nuclear Instruments & Methods in Physics Research B, 1994, 85, 171-177.	0.6	5
79	Combination of IBA techniques and Raman spectroscopy to study defects in 18O labelled YBaCuO thin films. Nuclear Instruments & Methods in Physics Research B, 1994, 85, 462-467.	0.6	4
80	Study of CuO _y layers on Si and MgO by a combination of ion beam analysis (RBS/NRA), X-ray photoemission spectroscopy (XPS) and X-ray absorption spectroscopy (XAS). Applied Surface Science, 1993, 64, 313-327.	3.1	8
81	Study of the relation between composition and physical properties of YBaCuO thin films using RBS, NRA, XRD, XAS and $I_{\pm}(T)$. Applied Surface Science, 1993, 65-66, 179-186.	3.1	7
82	Study of oxygen content and of disorder in YBaCuO thin films with enlarged c-axis lattice parameter. Journal of Alloys and Compounds, 1993, 195, 675-678.	2.8	11
83	Selective 18O labelling in a-axis oriented YBaCuO thin films. Journal of Alloys and Compounds, 1993, 195, 137-140.	2.8	3
84	Laser deposition of copper oxide thin films: contrast with sputtering. Applied Surface Science, 1992, 54, 201-204.	3.1	6
85	RBS analysis of thin amorphous YBaCuO films: comparison with direct determination of oxygen contents by NRA. Nuclear Instruments & Methods in Physics Research B, 1992, 64, 169-173.	0.6	34
86	Use of RBS and Raman spectroscopy to study oxygen mobility in YBaCuO thin films by 18O tracing experiments. Nuclear Instruments & Methods in Physics Research B, 1992, 64, 179-183.	0.6	11
87	Quantification of indium in steel using PIXE. Nuclear Instruments & Methods in Physics Research B, 1989, 40-41, 627-629.	0.6	2
88	Energy-Dependent Deformation of Colloidal Silica Nanoparticles under Room Temperature Irradiation with MeV Si Ions. Journal of Nano Research, 0, 5, 61-67.	0.8	4