

Dimitrios Christofilos

List of Publications by Year in descending order

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172457

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99
docs citations

99
times ranked

5573
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast Electron Dynamics and Optical Nonlinearities in Metal Nanoparticles. Journal of Physical Chemistry B, 2001, 105, 2264-2280.	2.6	609
2	Nonequilibrium electron dynamics in noble metals. Physical Review B, 2000, 61, 16956-16966.	3.2	406
3	Removal of antibiotics, antibiotic-resistant bacteria and their associated genes by graphene-based TiO ₂ composite photocatalysts under solar radiation in urban wastewaters. Applied Catalysis B: Environmental, 2018, 224, 810-824.	20.2	263
4	Electron-Phonon Scattering in Metal Clusters. Physical Review Letters, 2003, 90, 177401.	7.8	254
5	Thermal Conductivity Enhancement in Aqueous Suspensions of Carbon Multi-Walled and Double-Walled Nanotubes in the Presence of Two Different Dispersants. International Journal of Thermophysics, 2005, 26, 647-664.	2.1	254
6	Direct Measurement of the Single-Metal-Cluster Optical Absorption. Physical Review Letters, 2004, 93, 127401.	7.8	246
7	Size-Dependent Electron-Electron Interactions in Metal Nanoparticles. Physical Review Letters, 2000, 85, 2200-2203.	7.8	210
8	Ultrafast Nonlinear Optical Response of a Single Gold Nanorod near Its Surface Plasmon Resonance. Physical Review Letters, 2011, 107, 057402.	7.8	209
9	Quantitative Determination of the Size Dependence of Surface Plasmon Resonance Damping in Single Ag@SiO ₂ Nanoparticles. Nano Letters, 2009, 9, 3463-3469.	9.1	190
10	Ultrafast electron-electron scattering and energy exchanges in noble-metal nanoparticles. Physical Review B, 2004, 69, .	3.2	135
11	Time-resolved investigation of the vibrational dynamics of metal nanoparticles. Applied Surface Science, 2000, 164, 131-139.	6.1	116
12	Crystallinity and Chain Conformation in PEO/Layered Silicate Nanocomposites. Macromolecules, 2011, 44, 9710-9722.	4.8	113
13	Acoustic Vibration of Metal Films and Nanoparticles. Journal of Physical Chemistry A, 2000, 104, 4321-4326.	2.5	80
14	Environment effect on the acoustic vibration of metal nanoparticles. Physica B: Condensed Matter, 2002, 316-317, 89-94.	2.7	76
15	A high pressure Raman study of calcium molybdate. Journal of Physics and Chemistry of Solids, 1995, 56, 1125-1129.	4.0	72
16	Optical response of a single noble metal nanoparticle. Journal of Optics, 2006, 8, S264-S272.	1.5	63
17	Pressure screening in the interior of primary shells in double-wall carbon nanotubes. Physical Review B, 2005, 71, .	3.2	62
18	Raman spectroscopy of graphene at high pressure: Effects of the substrate and the pressure transmitting media. Physical Review B, 2013, 88, .	3.2	56

#	ARTICLE	IF	CITATIONS
19	Pressure Induced Phase Transitions in Alkaline Earth Tungstates. <i>Physica Status Solidi (B): Basic Research</i> , 1996, 198, 539-544.	1.5	48
20	Pressure dependence of the Boson peak in glassy As ₂ S ₃ studied by Raman scattering. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4594-4600.	3.1	47
21	Pressure-induced orientational ordering in C ₆₀ single crystals studied by Raman spectroscopy. <i>Physical Review B</i> , 1995, 52, 10090-10096.	3.2	45
22	Temperature and pressure dependence of Raman-active phonons of CaMoO ₄ : an anharmonicity study. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 8925-8938.	1.8	38
23	Polymeric hydrogels and supercritical fluids: The mechanism of hydrogel foaming. <i>Polymer</i> , 2011, 52, 2819-2826.	3.8	38
24	Optical response of a single gold nanoparticle. <i>Gold Bulletin</i> , 2008, 41, 147-158.	2.7	37
25	Optical Imaging and Absolute Absorption Cross Section Measurement of Individual Nano-objects on Opaque Substrates: Single-Wall Carbon Nanotubes on Silicon. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1176-1181.	4.6	37
26	Vibrational properties of (Gd _{1-x} Y _x) ₃ Ga ₅ O ₁₂ solid solutions. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	36
27	High-pressure Raman study and lattice dynamical calculations for SrWO ₄ . <i>Journal of Physics Condensed Matter</i> , 2002, 14, 12641-12650.	1.8	34
28	Femtosecond investigation of the hot-phonon effect in GaAs at room temperature. <i>Physical Review B</i> , 1996, 54, 14487-14493.	3.2	33
29	Double-wall carbon nanotubes under pressure: Probing the response of individual tubes and their intratube correlation. <i>Physical Review B</i> , 2005, 72, .	3.2	29
30	Tailoring the efficiency of an active catalyst for CO abatement through oxidation reaction: The case study of samarium-doped ceria. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 266-280.	6.7	28
31	High pressure Raman study of BaMoO ₄ . <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 3155-3160.	1.5	25
32	Identification of inner and outer shells of double-wall carbon nanotubes using high-pressure Raman spectroscopy. <i>Physical Review B</i> , 2007, 76, .	3.2	25
33	High pressure Raman study of Y ₃ Al ₅ O ₁₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 3149-3154.	1.5	23
34	Raman study of the high-pressure hydrogenated single-wall carbon nanotubes: In search of chemically bonded and adsorbed molecular hydrogen. <i>Chemical Physics Letters</i> , 2007, 433, 335-339.	2.6	23
35	Effects of confinement on the electron and lattice dynamics in metal nanoparticles. <i>European Physical Journal D</i> , 2005, 34, 199-204.	1.3	20
36	Raman study of metallic carbon nanotubes at elevated pressure. <i>Diamond and Related Materials</i> , 2006, 15, 1075-1079.	3.9	19

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37	Ultrafast nonlinear spectroscopy of a single silver nanoparticle. Journal of Raman Spectroscopy, 2011, 42, 1891-1896.	2.5	17
38	Structural anisotropic properties of <i>a</i> -plane GaN epilayers grown on <i>r</i> -plane sapphire by molecular beam epitaxy. Journal of Applied Physics, 2014, 115, .	2.5	16
39	Material characterization and bioactivity evaluation of dental porcelain modified by bioactive glass. Ceramics International, 2012, 38, 5585-5596.	4.8	15
40	Raman Spectroscopy for Intracellular Monitoring of Carotenoid in Blakeslea trispora. Applied Biochemistry and Biotechnology, 2009, 159, 478-487.	2.9	14
41	Raman study of the temperature-induced decomposition of the two-dimensional rhombohedral polymer of C60 and the intermediate states formed. Carbon, 2010, 48, 2974-2979.	10.3	14
42	Pressure induced phase transitions in C60 single crystals. Chemical Physics Letters, 1995, 236, 265-270.	2.6	13
43	Surface plasmon resonance spectroscopy of single surfactant-stabilized gold nanoparticles. European Physical Journal D, 2011, 63, 293-299.	1.3	13
44	Raman study of the temperature-induced decomposition of the fullerene dimers C120. Chemical Physics Letters, 2016, 654, 81-85.	2.6	13
45	Surface profile gradient in amorphous Ta2O5 semi conductive layers regulates nanoscale electric current stability. Applied Surface Science, 2017, 396, 1000-1019.	6.1	13
46	Novel electrospun poly-hydroxybutyrate scaffolds as carriers for the wound healing agents alkannins and shikonins. International Journal of Energy Production and Management, 2021, 8, rbab011.	3.7	13
47	Study of Molecular Inclusion Complex Formation of Amylose With Indomethacin. Starch/Staerke, 2019, 71, 1800295.	2.1	12
48	High pressure study of the surface plasmon resonance in AG nanoparticles. High Pressure Research, 2003, 23, 23-27.	1.2	11
49	One Pot Synthesis and Characterization of Ultra Fine CeO ₂ and Cu/CeO ₂ Nanoparticles. Application for Low Temperature CO Oxidation. Journal of Nanoscience and Nanotechnology, 2011, 11, 8593-8598.	0.9	11
50	Effect of the crystallinity of diamond coatings on cemented carbide inserts on their cutting performance in milling. CIRP Annals - Manufacturing Technology, 2019, 68, 65-68.	3.6	11
51	Femtosecond Nonlinear Optical Spectroscopy of the Acoustic Vibration of Metal Nanoparticles Under High Pressure. High Pressure Research, 2002, 22, 277-281.	1.2	10
52	Effect of In implantation and annealing on the lattice disorder and nano-mechanical properties of GaN. Thin Solid Films, 2013, 531, 152-159.	1.8	10
53	High pressure Raman study of type I collagen. FEBS Journal, 2018, 285, 2641-2653.	4.7	10
54	Comparative high pressure Raman study of individual and bundled single-wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 100-104.	1.5	9

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55	Temperature effects in the Raman spectra of bundled single-wall carbon nanotubes. <i>Chemical Physics Letters</i> , 2009, 477, 336-339.	2.6	9
56	Nanoindentation and Raman studies of phase-separated Ag-As-S glasses. <i>Applied Physics Letters</i> , 2011, 99, 171911.	3.3	9
57	Inducing bioactivity of dental ceramic/bioactive glass composites by Nd:YAG laser. <i>Dental Materials</i> , 2016, 32, e284-e296.	3.5	9
58	Influence of pressure on the photopolymerization rate of the linear orthorhombic polymer of C60. <i>Chemical Physics Letters</i> , 2006, 428, 298-302.	2.6	8
59	Raman study of polycrystalline PbWO ₄ under high pressure. <i>High Pressure Research</i> , 2006, 26, 421-425.	1.2	8
60	Depth profile of the biaxial strain in a 10 [±] 1/4 μm thick InN (0001) film. <i>Journal of Applied Physics</i> , 2006, 100, 113516.	2.5	8
61	High pressure Raman study of the second-order vibrational modes of single- and double-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4069-4073.	1.5	8
62	Charge transport mechanisms and memory effects in amorphous TaN x thin films. <i>Nanoscale Research Letters</i> , 2013, 8, 432.	5.7	8
63	An investigation into the possibility of molecular inclusion complexation of indomethacin with starch by the alkaline method. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2019, 93, 347-359.	1.6	8
64	Optical Properties of C ₆₀ Single Crystals at High Pressure. <i>Physica Status Solidi (B): Basic Research</i> , 1996, 198, 553-558.	1.5	7
65	Second-order Raman study of double-wall carbon nanotubes under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 116-120.	1.5	7
66	The effect of high tempered firing cycle on the bioactive behavior of sol-gel derived dental porcelain modified by bioactive glass. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 63, 481-494.	2.4	7
67	Interaction of Tretinoin and Nimesulide with Amylose Matrices. <i>Starch/Staerke</i> , 2021, 73, .	2.1	7
68	The Russian Avant-Garde Painting Palette Documentary and Physicochemical Study of Inorganic Colorants. <i>Annali Di Chimica</i> , 2007, 97, 447-472.	0.6	6
69	High pressure studies of the radial breathing modes in double-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 127-135.	1.5	6
70	Anisotropic strain in c-plane GaN and polarization dependence of the Raman peaks. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 1085-1089.	1.8	6
71	Towards Sustainable Museum Conservation Practices: A Study on the Surface Cleaning of Contemporary Art and Design Objects with the Use of Biodegradable Agents. <i>Heritage</i> , 2021, 4, 2023-2043.	1.9	6
72	High Pressure Raman Spectroscopy in Carbon Nanotubes. <i>Acta Physica Polonica A</i> , 2009, 116, 13-18.	0.5	6

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73	Photo-and pressure-induced transformations in the linear orthorhombic polymer of C60. Journal of Experimental and Theoretical Physics, 2008, 107, 620-631.	0.9	5
74	Comparative Raman Study of the C60H36 and C60H60 Fullerene Hydrides. Fullerenes Nanotubes and Carbon Nanostructures, 2008, 16, 593-596.	2.1	5
75	Raman scattering of In _x Al _{1-x} N alloys with 0.2 x 0.9. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 76-79.	0.8	5
76	Raman study of the photopolymer formation in the {Pt(dbdtc) ₂ }·C ₆₀ fullerene complex and the decomposition kinetics of the photo-oligomers. Chemical Physics Letters, 2017, 681, 124-129.	2.6	5
77	Layer by layer deposition of alternate carbon nanotubes and Ni films for efficient multilayer thin film temperature gauges. Journal Physics D: Applied Physics, 2019, 52, 095104.	2.8	5
78	Tube encapsulation effects in various carbon nanotube systems. Physica Status Solidi (B): Basic Research, 2007, 244, 4082-4085.	1.5	4
79	High-pressure Raman study of the Sm _{2.75} C ₆₀ fulleride. High Pressure Research, 2011, 31, 13-17.	1.2	4
80	Pressure Raman study of vibrational modes of glassy As ₂ X ₃ (X: O, S). High Pressure Research, 2006, 26, 401-406.	1.2	3
81	Surface plasmon resonance linear and nonlinear response in a single nanorod. Proceedings of SPIE, 2008, , .	0.8	3
82	Raman and photoluminescence mapping of In _x Ga _{1-x} N (x = 0.4) at high pressure: Optical determination of composition and stress. Applied Physics Letters, 2014, 105, .	3.3	3
83	Angular-dependent Raman study of a- and s-plane InN. Journal of Applied Physics, 2015, 117, 075302.	2.5	3
84	High-pressure Raman study of the alkaline-earth metal fulleride, Ca _{2.75} C ₆₀ . Modern Physics Letters B, 2020, 34, 2040056.	1.9	3
85	A high pressure Raman study of terbium molybdate. High Pressure Research, 1994, 13, 127-131.	1.2	2
86	Structural support of the external tubes in double-wall carbon nanotubes. High Pressure Research, 2008, 28, 591-595.	1.2	2
87	A simple model for the interpretation of the pressure response of the radial breathing modes in double-wall carbon nanotubes. Journal of Physics: Conference Series, 2008, 121, 162004.	0.4	2
88	High-pressure Raman study of stacked-cup carbon nanofibers. High Pressure Research, 2011, 31, 131-135.	1.2	2
89	Raman spectroscopic study of the rare-earth fullerides Eu _{6-x} Sr _x C ₆₀ . Nanoscale, 2011, 3, 2490.	5.6	2
90	Optical spectroscopy of metal nanoparticles: single particle detection (Invited Paper). , 2005, , .		1

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91	Raman Study of Hydrogenated and Fluorinated Single-Walled Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2008, 16, 322-329.	2.1	1
92	High-pressure Raman study of peapod- and CVD-grown double-wall carbon nanotubes. High Pressure Research, 2009, 29, 554-558.	1.2	1
93	Thermally Induced Softening of the Radial Breathing Modes of Bundled Single-Walled Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 538-544.	2.1	1
94	High Temperature Depolymerization of the 2D-R Polymer of C60 Studied by Raman Spectroscopy. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 396-400.	2.1	1
95	Entropy and Random Walk Trails Water Confinement and Non-Thermal Equilibrium in Photon-Induced Nanocavities. Nanomaterials, 2020, 10, 1101.	4.1	1
96	High pressure Raman studies of carbon nanotube materials. Journal of Physics: Conference Series, 2008, 121, 162003.	0.4	0
97	High pressure Raman study of carotene-encapsulating single-wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 496-499.	1.5	0
98	Temperature-induced transformations in hydrogenated and fluorinated single-wall carbon nanotubes studied by Raman scattering. Journal of Experimental and Theoretical Physics, 2011, 112, 979-985.	0.9	0