Dimitrios Christofilos

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3324037/publications.pdf

Version: 2024-02-01

98 papers	4,421 citations	172457 29 h-index	106344 65 g-index
99 all docs	99 docs citations	99 times ranked	5573 citing authors

#	Article	IF	Citations
1	Interaction of Tretinoin and Nimesulide with Amylose Matrices. Starch/Staerke, 2021, 73, .	2.1	7
2	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
3	Towards Sustainable Museum Conservation Practices: A Study on the Surface Cleaning of Contemporary Art and Design Objects with the Use of Biodegradable Agents. Heritage, 2021, 4, 2023-2043.	1.9	6
4	High-pressure Raman study of the alkaline-earth metal fulleride, Ca2.75C60. Modern Physics Letters B, 2020, 34, 2040056.	1.9	3
5	Entropy and Random Walk Trails Water Confinement and Non-Thermal Equilibrium in Photon-Induced Nanocavities. Nanomaterials, 2020, 10, 1101.	4.1	1
6	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
7	Study of Molecular Inclusion Complex Formation of Amylose With Indomethacin. Starch/Staerke, 2019, 71, 1800295.	2.1	12
8	An investigation into the possibility of molecular inclusion complexation of indomethacin with starch by the alkaline method. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2019, 93, 347-359.	1.6	8
9	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
10	Tailoring the efficiency of an active catalyst for CO abatement through oxidation reaction: The case study of samarium-doped ceria. Journal of Environmental Chemical Engineering, 2018, 6, 266-280.	6.7	28
11	Removal of antibiotics, antibiotic-resistant bacteria and their associated genes by graphene-based TiO2 composite photocatalysts under solar radiation in urban wastewaters. Applied Catalysis B: Environmental, 2018, 224, 810-824.	20.2	263
12	High pressure Raman study of typeâ€‰collagen. FEBS Journal, 2018, 285, 2641-2653.	4.7	10
13	Surface profile gradient in amorphous Ta2O5 semi conductive layers regulates nanoscale electric current stability. Applied Surface Science, 2017, 396, 1000-1019.	6.1	13
14	Raman study of the photopolymer formation in the {Pt(dbdtc) 2 }Â·C 60 fullerene complex and the decomposition kinetics of the photo-oligomers. Chemical Physics Letters, 2017, 681, 124-129.	2.6	5
15	Raman study of the temperature-induced decomposition of the fullerene dimers C120. Chemical Physics Letters, 2016, 654, 81-85.	2.6	13
16	Inducing bioactivity of dental ceramic/bioactive glass composites by Nd:YAG laser. Dental Materials, 2016, 32, e284-e296.	3.5	9
17	Angular-dependent Raman study of a- and s-plane InN. Journal of Applied Physics, 2015, 117, 075302.	2.5	3
18	Raman and photoluminescence mapping of InxGa1âˆ’xN (xâ€‰â‰ˆâ€‰0.4) at high pressure: Optical determination of composition and stress. Applied Physics Letters, 2014, 105, .	3.3	3

#	Article	IF	Citations
19	Structural anisotropic properties of a-plane GaN epilayers grown on r-plane sapphire by molecular beam epitaxy. Journal of Applied Physics, 2014, 115, .	2.5	16
20	Raman spectroscopy of graphene at high pressure: Effects of the substrate and the pressure transmitting media. Physical Review B, 2013, 88, .	3.2	56
21	Charge transport mechanisms and memory effects in amorphous TaN x thin films. Nanoscale Research Letters, 2013, 8, 432.	5.7	8
22	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
23	Material characterization and bioactivity evaluation of dental porcelain modified by bioactive glass. Ceramics International, 2012, 38, 5585-5596.	4.8	15
24	The effect of high tempered firing cycle on the bioactive behavior of solâ€“gel derived dental porcelain modified by bioactive glass. Journal of Sol-Gel Science and Technology, 2012, 63, 481-494.	2.4	7
25	Anisotropic strain in Î±â€plane GaN and polarization dependence of the Raman peaks. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1085-1089.	1.8	6
26	Optical Imaging and Absolute Absorption Cross Section Measurement of Individual Nano-objects on Opaque Substrates: Single-Wall Carbon Nanotubes on Silicon. Journal of Physical Chemistry Letters, 2012, 3, 1176-1181.	4.6	37
27	High-pressure Raman study of stacked-cup carbon nanofibers. High Pressure Research, 2011, 31, 131-135.	1.2	2
28	Ultrafast Nonlinear Optical Response of a Single Gold Nanorod near Its Surface Plasmon Resonance. Physical Review Letters, 2011, 107, 057402.	7.8	209
29	Crystallinity and Chain Conformation in PEO/Layered Silicate Nanocomposites. Macromolecules, 2011, 44, 9710-9722.	4.8	113
30	Raman spectroscopic study of the rare-earth fullerides Eu6â˜’xSrxC60. Nanoscale, 2011, 3, 2490.	5.6	2
31	Nanoindentation and Raman studies of phase-separated Ag-As-S glasses. Applied Physics Letters, 2011, 99, 171911.	3.3	9
32	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
33	Surface plasmon resonance spectroscopy of single surfactant-stabilized gold nanoparticles. European Physical Journal D, 2011, 63, 293-299.	1.3	13
34	Ultrafast nonlinear spectroscopy of a single silver nanoparticle. Journal of Raman Spectroscopy, 2011, 42, 1891-1896.	2.5	17
35	Polymeric hydrogels and supercritical fluids: The mechanism of hydrogel foaming. Polymer, 2011, 52, 2819-2826.	3.8	38
36	One Pot Synthesis and Characterization of Ultra Fine CeO₂ and Cu/CeO₂ Nanoparticles. Application for Low Temperature CO Oxidation. Journal of Nanoscience and Nanotechnology, 2011, 11, 8593-8598.	0.9	11

#	Article	IF	Citations
37	High-pressure Raman study of the Sm_{2.75}C₆₀fulleride. High Pressure Research, 2011, 31, 13-17.	1.2	4
38	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
39	Raman scattering of In_xAl_{1â€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
40	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
41	High Temperature Depolymerization of the 2D-R Polymer of C60Studied by Raman Spectroscopy. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 396-400.	2.1	1
42	Vibrational properties of (Gd1â^'xYx)3Ga5O12 solid solutions. Journal of Applied Physics, 2010, 107, .	2.5	36
43	Raman Spectroscopy for Intracellular Monitoring of Carotenoid in Blakeslea trispora. Applied Biochemistry and Biotechnology, 2009, 159, 478-487.	2.9	14
44	High pressure Raman study of caroteneâ€encapsulating singleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 496-499.	1.5	0
45	Temperature effects in the Raman spectra of bundled single-wall carbon nanotubes. Chemical Physics Letters, 2009, 477, 336-339.	2.6	9
46	High-pressure Raman study of peapod- and CVD-grown double-wall carbon nanotubes. High Pressure Research, 2009, 29, 554-558.	1.2	1
47	Quantitative Determination of the Size Dependence of Surface Plasmon Resonance Damping in Single Ag@SiO₂ Nanoparticles. Nano Letters, 2009, 9, 3463-3469.	9.1	190
48	High Pressure Raman Spectroscopy in Carbon Nanotubes. Acta Physica Polonica A, 2009, 116, 13-18.	0.5	6
49	Optical response of a single gold nanoparticle. Gold Bulletin, 2008, 41, 147-158.	2.7	37
50	Structural support of the external tubes in double-wall carbon nanotubes. High Pressure Research, 2008, 28, 591-595.	1.2	2
51	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
52	Surface plasmon resonance linear and nonlinear response in a single nanorod. Proceedings of SPIE, 2008, , .	0.8	3
53	Comparative Raman Study of the C60H36and C60H60Fullerene Hydrides. Fullerenes Nanotubes and Carbon Nanostructures, 2008, 16, 593-596.	2.1	5
54	Raman Study of Hydrogenated and Fluorinated Singleâ€walled Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2008, 16, 322-329.	2.1	1

#	Article	IF	Citations
55	High pressure Raman studies of carbon nanotube materials. Journal of Physics: Conference Series, 2008, 121, 162003.	0.4	0
56	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
57	Identification of inner and outer shells of double-wall carbon nanotubes using high-pressure Raman spectroscopy. Physical Review B, 2007, 76, .	3.2	25
58	The RussianAvant-Garde Painting Palette Documentary and Physicochemical Study of Inorganic Colorants. Annali Di Chimica, 2007, 97, 447-472.	0.6	6
59	Raman study of the high-pressure hydrogenated single-wall carbon nanotubes: In search of chemically bonded and adsorbed molecular hydrogen. Chemical Physics Letters, 2007, 433, 335-339.	2.6	23
60	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
61	Second-order Raman study of double-wall carbon nanotubes under high pressure. Physica Status Solidi (B): Basic Research, 2007, 244, 116-120.	1.5	7
62	High pressure studies of the radial breathing modes in double-wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 127-135.	1.5	6
63	High pressure Raman study of the secondâ€order vibrational modes of singleâ€and doubleâ€walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4069-4073.	1.5	8
64	Tube encapsulation effects in various carbon nanotube systems. Physica Status Solidi (B): Basic Research, 2007, 244, 4082-4085.	1.5	4
65	Raman study of metallic carbon nanotubes at elevated pressure. Diamond and Related Materials, 2006, 15, 1075-1079.	3.9	19
66	Pressure dependence of the Boson peak in glassy As2S3 studied by Raman scattering. Journal of Non-Crystalline Solids, 2006, 352, 4594-4600.	3.1	47
67	Influence of pressure on the photopolymerization rate of the linear orthorhombic polymer of C60. Chemical Physics Letters, 2006, 428, 298-302.	2.6	8
68	Pressure Raman study of vibrational modes of glassy As2X3(X: O, S). High Pressure Research, 2006, 26, 401-406.	1.2	3
69	Raman study of polycrystalline PbWO4under high pressure. High Pressure Research, 2006, 26, 421-425.	1.2	8
70	Depth profile of the biaxial strain in a 10â€‚Î¼m thick InN (0001) film. Journal of Applied Physics, 2006, 100, 113516.	2.5	8
71	Optical response of a single noble metal nanoparticle. Journal of Optics, 2006, 8, S264-S272.	1.5	63
72	Optical spectroscopy of metal nanoparticles: single particle detection (Invited Paper). , 2005, , .		1

#	Article	IF	Citations
73	Effects of confinement on the electron and lattice dynamics in metal nanoparticles. European Physical Journal D, 2005, 34, 199-204.	1.3	20
74	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
75	Double-wall carbon nanotubes under pressure: Probing the response of individual tubes and their intratube correlation. Physical Review B, 2005, 72, .	3.2	29
76	Pressure screening in the interior of primary shells in double-wall carbon nanotubes. Physical Review B, 2005, 71, .	3.2	62
77	High pressure Raman study of Y3Al5O12. Physica Status Solidi (B): Basic Research, 2004, 241, 3149-3154.	1.5	23
78	High pressure Raman study of BaMoO4. Physica Status Solidi (B): Basic Research, 2004, 241, 3155-3160.	1.5	25
79	Ultrafast electron-electron scattering and energy exchanges in noble-metal nanoparticles. Physical Review B, 2004, 69, .	3.2	135
80	Direct Measurement of the Single-Metal-Cluster Optical Absorption. Physical Review Letters, 2004, 93, 127401.	7.8	246
81	Electron-Phonon Scattering in Metal Clusters. Physical Review Letters, 2003, 90, 177401.	7.8	254
82	High pressure study of the surface plasmon resonance in AG nanoparticles. High Pressure Research, 2003, 23, 23-27.	1.2	11
83	High-pressure Raman study and lattice dynamical calculations for SrWO4. Journal of Physics Condensed Matter, 2002, 14, 12641-12650.	1.8	34
84	Femtosecond Nonlinear Optical Spectroscopy of the Acoustic Vibration of Metal Nanoparticles Under High Pressure. High Pressure Research, 2002, 22, 277-281.	1.2	10
85	Temperature and pressure dependence of Raman-active phonons of CaMoO4: an anharmonicity study. Journal of Physics Condensed Matter, 2002, 14, 8925-8938.	1.8	38
86	Environment effect on the acoustic vibration of metal nanoparticles. Physica B: Condensed Matter, 2002, 316-317, 89-94.	2.7	76
87	Ultrafast Electron Dynamics and Optical Nonlinearities in Metal Nanoparticles. Journal of Physical Chemistry B, 2001, 105, 2264-2280.	2.6	609
88	Time-resolved investigation of the vibrational dynamics of metal nanoparticles. Applied Surface Science, 2000, 164, 131-139.	6.1	116
89	Nonequilibrium electron dynamics in noble metals. Physical Review B, 2000, 61, 16956-16966.	3.2	406
90	Size-Dependent Electron-Electron Interactions in Metal Nanoparticles. Physical Review Letters, 2000, 85, 2200-2203.	7.8	210

#	Article	IF	Citations
91	Acoustic Vibration of Metal Films and Nanoparticles. Journal of Physical Chemistry A, 2000, 104, 4321-4326.	2.5	80
92	Pressure Induced Phase Transitions in Alkaline Earth Tungstates. Physica Status Solidi (B): Basic Research, 1996, 198, 539-544.	1.5	48
93	Optical Properties of C₆₀ Single Crystals at High Pressure. Physica Status Solidi (B): Basic Research, 1996, 198, 553-558.	1.5	7
94	Femtosecond investigation of the hot-phonon effect in GaAs at room temperature. Physical Review B, 1996, 54, 14487-14493.	3.2	33
95	Pressure induced phase transitions in C60 single crystals. Chemical Physics Letters, 1995, 236, 265-270.	2.6	13
96	A high pressure Raman study of calcium molybdate. Journal of Physics and Chemistry of Solids, 1995, 56, 1125-1129.	4.0	72
97	Pressure-induced orientational ordering inC60single crystals studied by Raman spectroscopy. Physical Review B, 1995, 52, 10090-10096.	3.2	45
98	A high pressure Raman study of terbium molybdate. High Pressure Research, 1994, 13, 127-131.	1.2	2