

Konstantinos Papagelis

List of Publications by Citations

Source: <https://exaly.com/author-pdf/45494/konstantinos-papagelis-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124
papers

8,342
citations

32
h-index

90
g-index

128
ext. papers

9,182
ext. citations

5
avg, IF

5.82
L-index

#	Paper	IF	Citations
124	Carbon nanotube/polymer composites: Chemistry, processing, mechanical and electrical properties. <i>Progress in Polymer Science</i> , 2010 , 35, 357-401	29.6	2413
123	Chemical oxidation of multiwalled carbon nanotubes. <i>Carbon</i> , 2008 , 46, 833-840	10.4	2082
122	Subjecting a graphene monolayer to tension and compression. <i>Small</i> , 2009 , 5, 2397-402	11	352
121	Compression behavior of single-layer graphenes. <i>ACS Nano</i> , 2010 , 4, 3131-8	16.7	257
120	Raman 2D-band splitting in graphene: theory and experiment. <i>ACS Nano</i> , 2011 , 5, 2231-9	16.7	228
119	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020 , 7, 022001	5.9	179
118	Development of a universal stress sensor for graphene and carbon fibres. <i>Nature Communications</i> , 2011 , 2,	17.4	152
117	Temperature-induced valence transition and associated lattice collapse in samarium fulleride. <i>Nature</i> , 2003 , 425, 599-602	50.4	123
116	Deformation of wrinkled graphene. <i>ACS Nano</i> , 2015 , 9, 3917-25	16.7	120
115	Temperature dependence of exciton peak energies in ZnS, ZnSe, and ZnTe epitaxial films. <i>Journal of Applied Physics</i> , 1999 , 86, 4403-4411	2.5	108
114	Two-dimensional electronic and vibrational band structure of uniaxially strained graphene from ab initio calculations. <i>Physical Review B</i> , 2009 , 80,	3.3	92
113	Stress transfer mechanisms at the submicron level for graphene/polymer systems. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4216-23	9.5	90
112	Raman study of Mg, Si, O, and N implanted GaN. <i>Journal of Applied Physics</i> , 2003 , 94, 4389-4394	2.5	87
111	Phonon properties of graphene derived from molecular dynamics simulations. <i>Scientific Reports</i> , 2015 , 5, 12923	4.9	83
110	In-plane force fields and elastic properties of graphene. <i>Journal of Applied Physics</i> , 2013 , 113, 134307	2.5	74
109	Optical detection of strain and doping inhomogeneities in single layer MoS ₂ . <i>Applied Physics Letters</i> , 2016 , 108, 173102	3.4	74
108	Evaluating arbitrary strain configurations and doping in graphene with Raman spectroscopy. <i>2D Materials</i> , 2018 , 5, 015016	5.9	71

107	Graphene flakes under controlled biaxial deformation. <i>Scientific Reports</i> , 2015 , 5, 18219	4.9	63
106	Failure processes in embedded monolayer graphene under axial compression. <i>Scientific Reports</i> , 2014 , 4, 5271	4.9	58
105	Phonon and structural changes in deformed Bernal stacked bilayer graphene. <i>Nano Letters</i> , 2012 , 12, 687-93	11.5	58
104	Pressure screening in the interior of primary shells in double-wall carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	58
103	The effect of oxidation treatment on the properties of multi-walled carbon nanotube thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 165, 135-138	3.1	56
102	Lattice Dynamical Properties of the Rare Earth Aluminum Garnets (RE ₃ Al ₅ O ₁₂). <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 233, 134-150	1.3	50
101	Raman spectroscopy of graphene at high pressure: Effects of the substrate and the pressure transmitting media. <i>Physical Review B</i> , 2013 , 88,	3.3	46
100	Chemical Synthesis and Self-Assembly of Hollow Ni/Ni ₂ P Hybrid Nanospheres. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7582-7585	3.8	44
99	Suspended monolayer graphene under true uniaxial deformation. <i>Nanoscale</i> , 2015 , 7, 13033-42	7.7	43
98	Mechanical Stability of Flexible Graphene-Based Displays. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22605-14	9.5	40
97	Experimentally derived axial stress-strain relations for two-dimensional materials such as monolayer graphene. <i>Carbon</i> , 2015 , 81, 322-328	10.4	35
96	Infrared spectroscopy and lattice dynamical calculations of Gd ₃ Al ₅ O ₁₂ , Tb ₃ Al ₅ O ₁₂ and Lu ₃ Al ₅ O ₁₂ single crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2003 , 64, 599-605	3.9	35
95	Vibrational properties of the rare earth aluminum garnets. <i>Journal of Applied Physics</i> , 2003 , 94, 6491-6498	2.5	35
94	Water-Soluble Carbon Nanotubes by Redox Radical Polymerization. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 1553-1558	4.8	34
93	Thermal properties enhancement of epoxy resins by incorporating polybenzimidazole nanofibers filled with graphene and carbon nanotubes as reinforcing material. <i>Polymer Testing</i> , 2020 , 82, 106317	4.5	33
92	Wrinkled Few-Layer Graphene as Highly Efficient Load Bearer. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26593-26601	9.5	32
91	High-pressure Raman study and lattice dynamical calculations for SrWO ₄ . <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 12641-12650	1.8	32
90	Graphene production by dissociation of camphor molecules on nickel substrate. <i>Thin Solid Films</i> , 2013 , 527, 31-37	2.2	30

89	Novel hybrid materials consisting of regioregular poly(3-octylthiophene)s covalently attached to single-wall carbon nanotubes. <i>Chemistry - A European Journal</i> , 2008 , 14, 8715-24	4.8	30
88	Strained hexagonal boron nitride: Phonon shift and Grüneisen parameter. <i>Physical Review B</i> , 2018 , 97,	3.3	27
87	Open structured in comparison with dense multi-walled carbon nanotube buckypapers and their composites. <i>Composites Science and Technology</i> , 2013 , 77, 52-59	8.6	26
86	Vibrational properties of (Gd _{1-x} Y _x) ₃ Ga ₅ O ₁₂ solid solutions. <i>Journal of Applied Physics</i> , 2010 , 107, 113504	4.5	26
85	Covalently functionalized carbon nanotubes as macroinitiators for radical polymerization. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 4046-4050	1.3	26
84	Buckypaper as Pt-free cathode electrode in photoactivated fuel cells. <i>Electrochimica Acta</i> , 2012 , 80, 3994-4004	4.7	25
83	Double-wall carbon nanotubes under pressure: Probing the response of individual tubes and their intratube correlation. <i>Physical Review B</i> , 2005 , 72,	3.3	25
82	μ -SR study of carbon-doped MgB ₂ superconductors. <i>Europhysics Letters</i> , 2003 , 61, 254-260	1.6	23
81	High pressure Raman study of BaMoO ₄ . <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 3155-3160	1.3	23
80	Efficient exfoliation of graphene sheets in binary solvents. <i>Materials Letters</i> , 2013 , 94, 47-50	3.3	22
79	Negative Thermal Expansion in the Mixed Valence Ytterbium Fulleride, Yb _{2.75} C ₆₀ . <i>Chemistry of Materials</i> , 2005 , 17, 4474-4478	9.6	22
78	A novel mild method for surface treatment of carbon fibres in epoxy-matrix composites. <i>Composites Science and Technology</i> , 2018 , 157, 178-184	8.6	21
77	Polymer and Hybrid Electron Accepting Materials Based on a Semiconducting Perfluorophenylquinoline. <i>Macromolecules</i> , 2010 , 43, 4827-4828	5.5	21
76	On the nature of the laser irradiation induced reversible softening of phonon modes in C ₆₀ single crystals. <i>Chemical Physics Letters</i> , 1998 , 290, 125-130	2.5	21
75	High pressure Raman study of Y ₃ Al ₅ O ₁₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 3149-3154	1.3	21
74	Epoxidized multi-walled carbon nanotube buckypapers: A scaffold for polymer nanocomposites with enhanced mechanical properties. <i>Chemical Engineering Journal</i> , 2015 , 281, 793-803	14.7	20
73	Carbon nanotubes decorated with terpyridine-ruthenium complexes. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 2551-2559	2.5	20
72	Compressive response and buckling of graphene nanoribbons. <i>Scientific Reports</i> , 2018 , 8, 9593	4.9	20

71	Structural Properties of Chemically Functionalized Carbon Nanotube Thin Films. <i>Materials</i> , 2013 , 6, 2360-2371	3.9	19
70	Raman spectroscopic study of carbon substitution in MgB ₂ . <i>Journal of Physics and Chemistry of Solids</i> , 2004 , 65, 73-77	3.9	19
69	Uniaxial compression of suspended single and multilayer graphenes. <i>2D Materials</i> , 2016 , 3, 025033	5.9	18
68	Electronic Properties of Semiconducting Polymer-Functionalized Single Wall Carbon Nanotubes. <i>Macromolecules</i> , 2013 , 46, 2590-2598	5.5	18
67	Single-walled carbon nanotubes decorated with a pyrene-fluorenevinylene conjugate. <i>Nanotechnology</i> , 2009 , 20, 135606	3.4	18
66	N-Octyl-O-sulfate chitosan stabilises single wall carbon nanotubes in aqueous media and bestows biocompatibility. <i>Nanoscale</i> , 2009 , 1, 366-73	7.7	18
65	Colloidal stability of carbon nanotubes in an aqueous dispersion of phospholipid. <i>International Journal of Nanomedicine</i> , 2007 , 2, 761-6	7.3	18
64	Raman study of metallic carbon nanotubes at elevated pressure. <i>Diamond and Related Materials</i> , 2006 , 15, 1075-1079	3.5	17
63	Embedded trilayer graphene flakes under tensile and compressive loading. <i>2D Materials</i> , 2015 , 2, 024003	3.9	16
62	Long-lived discrete breathers in free-standing graphene. <i>Chaos, Solitons and Fractals</i> , 2016 , 87, 262-267	9.3	16
61	High pressure Raman scattering of silicon nanowires. <i>Nanotechnology</i> , 2011 , 22, 195707	3.4	16
60	Diameter-selective solubilization of carbon nanotubes by lipid micelles. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 420-3	1.3	15
59	Structural Defects Modulate Electronic and Nanomechanical Properties of 2D Materials. <i>ACS Nano</i> , 2021 , 15, 2520-2531	16.7	15
58	Lattice collapse in mixed-valence samarium fulleride Sm(2.75)C(60) at high pressure. <i>Dalton Transactions</i> , 2004 , 3144-6	4.3	14
57	Infrared lattice spectra of Tm ₃ Al ₅ O ₁₂ and Yb ₃ Al ₅ O ₁₂ single crystals. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 915-923	1.8	14
56	Compression behavior of simply-supported and fully embedded monolayer graphene: Theory and experiment. <i>Extreme Mechanics Letters</i> , 2016 , 8, 191-200	3.9	13
55	Phononic band gap engineering in graphene. <i>Journal of Applied Physics</i> , 2012 , 112, 094307	2.5	12
54	Temperature and Composition Dependence of Exciton Peak Positions and Band Gap Energies of Zn _{1-x} Mg _x (0.19)Se Epitaxial Films. <i>Physica Status Solidi (B): Basic Research</i> , 1997 , 204, 685-699	1.3	12

53	Stress and charge transfer in uniaxially strained CVD graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2355-2361	1.3	11
52	Raman spectroscopy of single wall carbon nanotubes functionalized with terpyridine-ruthenium complexes. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2721-2723	1.3	11
51	Pressure-induced charge transfer phase transition in crystalline C ₆₀ *C ₁₀ H ₁₂ Se ₄ *2(CS ₂) molecular complex studied by Raman spectroscopy. <i>Chemical Physics Letters</i> , 1997 , 281, 360-365	2.5	11
50	Phonons in Rare-Earth Aluminum Garnets and Their Relation to Lattice Vibration of AlO ₄ . <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 215, 193-198	1.3	11
49	Strain Engineering in Highly Wrinkled CVD Graphene/Epoxy Systems. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43192-43202	9.5	11
48	Controllable, eco-friendly, synthesis of highly crystalline 2D-MoS ₂ and clarification of the role of growth-induced strain. <i>2D Materials</i> , 2018 , 5, 035035	5.9	11
47	One pot synthesis and characterization of ultra fine CeO ₂ and Cu/CeO ₂ nanoparticles. Application for low temperature CO oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 8593-8	1.3	10
46	Effect of high hydrostatic pressure on the phonon modes of Tb ₃ Al ₅ O ₁₂ and Dy ₃ Al ₅ O ₁₂ single crystals. <i>Physica B: Condensed Matter</i> , 1999 , 265, 277-281	2.8	10
45	Exotic carbon nanostructures obtained through controllable defect engineering. <i>RSC Advances</i> , 2015 , 5, 39930-39937	3.7	9
44	High-pressure effects on the Raman spectrum and the force constants of the rare-earth aluminium garnets (RE ₃ Al ₅ O ₁₂). <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 3875-3890	1.8	9
43	Phase separation in carbon-doped MgB ₂ studied by means of alternating current susceptibility measurements. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 7363-7369	1.8	9
42	High Pressure Raman Study of Lu ₃ Al ₅ O ₁₂ . <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 211, 301-307	1.3	9
41	Comparative Raman Study of the 1D and 2D Polymeric Phases of C ₆₀ under Pressure. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 215, 443-448	1.3	9
40	Biaxial strain engineering of CVD and exfoliated single- and bi-layer MoS ₂ crystals. <i>2D Materials</i> , 2021 , 8, 015023	5.9	9
39	Elastic Properties of Crystalline-Amorphous Core-Shell Silicon Nanowires. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4219-4226	3.8	8
38	Mechanical, Electrical, and Thermal Properties of Carbon Nanotube Buckypapers/Epoxy Nanocomposites Produced by Oxidized and Epoxidized Nanotubes. <i>Materials</i> , 2020 , 13,	3.5	7
37	Antiferromagnetic ordering in the expanded (NH ₃)Rb ₃ C ₆₀ fulleride. <i>Physica B: Condensed Matter</i> , 2003 , 326, 572-576	2.8	7
36	Raman modes of the two-dimensional tetragonal polymeric phase of C ₆₀ under high pressure. <i>Journal of Chemical Physics</i> , 2001 , 114, 9099-9104	3.9	7

35	Atomistic potential for graphene and other sp carbon systems. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 30925-30932	3.6	6
34	Transforming graphene nanoribbons into nanotubes by use of point defects. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 125301	1.8	6
33	Second-order Raman study of double-wall carbon nanotubes under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 116-120	1.3	6
32	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	1.3	6
31	Raman study of polycrystalline PbWO ₄ under high pressure. <i>High Pressure Research</i> , 2006 , 26, 421-425	1.6	6
30	Phosphorous Diffusion in N ₂ ⁺ -Implanted Germanium during Flash Lamp Annealing: Influence of Nitrogen on Ge Substrate Damage and Capping Layer Engineering. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, P418-P428	2	5
29	Carbon nanotube-fluorene-ethylene hybrids: Synthesis and photophysical properties. <i>Chemical Physics Letters</i> , 2009 , 483, 241-246	2.5	5
28	Magnetic ordering in the ammoniated alkali fullerides (NH ₃)K ₃ Rb _x C ₆₀ (x= 2, 3). <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 386235	1.8	5
27	¹¹ B NMR Study of Pure and Lightly Carbon-Doped MgB ₂ Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2005 , 18, 521-528		5
26	Effect of high hydrostatic pressure on the intramolecular modes of (C ₅₉ N) ₂ . <i>Physical Review B</i> , 1999 , 59, 3180-3183	3.3	5
25	High pressure effects on the Raman spectrum of CsC ₆₀ polymer. <i>Physica B: Condensed Matter</i> , 1999 , 265, 234-238	2.8	5
24	Thermomechanical Response of Supported Hexagonal Boron Nitride Sheets of Various Thicknesses. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 12134-12143	3.8	4
23	High-pressure Raman study of the Sm _{2.75} C ₆₀ fulleride. <i>High Pressure Research</i> , 2011 , 31, 13-17	1.6	3
22	Evidence of Electron-Phonon Interaction in Al-Substituted Mg _{1-x} Al _x B ₂ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2004 , 17, 199-203		3
21	RR studies of superconducting MgB _{1.96} C _{0.04} . <i>Physica B: Condensed Matter</i> , 2003 , 326, 346-349	2.8	3
20	Pressure evolution of the phonon modes and force constants of Tb ₃ Al ₅ O ₁₂ and Lu ₃ Al ₅ O ₁₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 235, 348-353	1.3	3
19	Phonon Modes in Yb ₃ Al ₅ O ₁₂ : Pressure Dependence and Model Calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 223, 343-347	1.3	3
18	Doping-Induced Stacking Transition in Trilayer Graphene: Implications for Layer Stacking Manipulation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11861-11868	5.6	3

17	An Evaluation of Graphene as a Multi-Functional Heating Element for Biomedical Applications. <i>Journal of Biomedical Nanotechnology</i> , 2018 , 14, 86-97	4	3
16	Raman spectroscopic study of the rare-earth fullerenes Eu ₆ -xSr _x C ₆₀ . <i>Nanoscale</i> , 2011 , 3, 2490-3	7.7	2
15	High-pressure Raman study of stacked-cup carbon nanofibers. <i>High Pressure Research</i> , 2011 , 31, 131-135	1.6	2
14	Inelastic neutron scattering study of the intermolecular vibrational modes of Ba ₄ C ₆₀ . <i>Chemical Physics Letters</i> , 2003 , 377, 125-130	2.5	2
13	The pressure response of Raman active phonon modes of Tm ₃ Al ₅ O ₁₂ . <i>High Pressure Research</i> , 2000 , 18, 117-123	1.6	2
12	Charge Transfer in C ₆₀ *TMTSF* ₂ (CS ₂) Complex at High Pressure: A Raman Spectroscopic Study.. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 1998 , 7, 733-735	0	2
11	Softening of phonon modes in C ₆₀ crystals induced by laser irradiation: Thermal effects. <i>Journal of Experimental and Theoretical Physics</i> , 1998 , 87, 967-972	1	1
10	High pressure study of the 2D polymeric phase of C ₆₀ by means of raman spectroscopy. <i>High Pressure Research</i> , 2000 , 18, 145-151	1.6	1
9	The Role of the Intradimer C ₆₀ Bridge on the Stability of (C ₅₉ N) ₂ : A High Pressure Raman Study. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 211, 435-441	1.3	1
8	Efficient Mechanical Stress Transfer in Multilayer Graphene with a Ladder-like Architecture. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4473-4484	9.5	1
7	Lattice dynamics and thermodynamic properties of Y ₃ Al ₅ O ₁₂ (YAG). <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 162, 110512	3.9	0
6	Time-Resolved Raman Scattering in Exfoliated and CVD Graphene Crystals. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 21003-21010	3.8	0
5	Carbon Nanotube-Filled Polymer Composites 2013 , 219-247		
4	Chapter 9:Raman Spectroscopy of Carbon NanotubePolymer Hybrid Materials. <i>RSC Nanoscience and Nanotechnology</i> , 2013 , 253-269		
3	The effect of anisotropic intermolecular interactions on the pressure response of polymeric fullerenes. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 235, 369-373	1.3	
2	Characterization of Graphene Flexible Materials and Displays 2018 , 207-230		
1	Practical Considerations on Applications of the Popularity of Games: The Case of Location-Based Games and Disaster. <i>Lecture Notes in Computer Science</i> , 2022 , 213-233	0.9	