

Antonio Gomes de Souza Filho

List of Publications by Year in descending order

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288
papers

14,449
citations

23879

60
h-index

26792

111
g-index

290
all docs

290
docs citations

290
times ranked

17924
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning and Natural Language Processing Enable a Data-Oriented Experimental Design Approach for Producing Biochar and Hydrochar from Biomass. <i>Chemistry of Materials</i> , 2022, 34, 979-990.	3.2	28
2	Pressure-induced structural transformations on linear carbon chains encapsulated in carbon nanotubes: A potential route for obtaining longer chains and ultra-hard composites. <i>Carbon</i> , 2022, 196, 20-28.	5.4	4
3	Computational study of elastic, structural stability and dynamics properties of penta-graphene membrane. <i>Chemical Physics</i> , 2021, 542, 111052.	0.9	16
4	Raman resonance tuning of quaterthiophene in filled carbon nanotubes at high pressures. <i>Carbon</i> , 2021, 173, 163-173.	5.4	12
5	Physical Membrane-Stress-Mediated Antimicrobial Properties of Cellulose Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3203-3212.	3.2	29
6	Unidade de gestão de dados e de indicadores críticos para avaliação de desempenho institucional. <i>Perspectivas Em Ciencia Da Informacao</i> , 2021, 26, 157-173.	0.1	0
7	Origin of the Giant Enhanced Raman Scattering by Sulfur Chains Encapsulated inside Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , 2021, 15, 8574-8582.	7.3	10
8	Flat-to-Flat Polymerization of Single-Walled Carbon Nanotubes under High Pressure Mediated by Carbon Chain Encapsulation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12857-12869.	1.5	2
9	Delamination of multilayer graphene stacks from its substrate through wrinkle formation under high pressures. <i>Carbon</i> , 2021, 185, 242-251.	5.4	2
10	Structural and electronic properties of double-walled Γ -graphyne nanotubes. <i>Computational Materials Science</i> , 2021, 200, 110768.	1.4	1
11	Profiles not metrics: the case of Brazilian universities. <i>Anais Da Academia Brasileira De Ciencias</i> , 2021, 93, e29290261.	0.3	8
12	Silver nanoparticles (AgNPs) internalization and passage through the <i>Lactuca sativa</i> (Asteraceae) outer cell wall. <i>Functional Plant Biology</i> , 2021, 48, 1113-1123.	1.1	15
13	Ordinary microfluidic electrodes combined with bulk nanoprobe produce multidimensional electric double-layer capacitances towards metal ion recognition. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127482.	4.0	16
14	Raman spectroscopy polarization dependence analysis in two-dimensional gallium sulfide. <i>Physical Review B</i> , 2020, 102, .	1.1	16
15	Ordered porous carbons from hydrothermally treated biomass: Effects of the thermal treatments on the structure and porosity. <i>Vibrational Spectroscopy</i> , 2020, 111, 103175.	1.2	5
16	International collaboration in Brazilian science: financing and impact. <i>Scientometrics</i> , 2020, 125, 2745-2772.	1.6	31
17	Temperature- and power-dependent phonon properties of suspended few layers of tungsten diselenide. <i>Vibrational Spectroscopy</i> , 2020, 111, 103169.	1.2	10
18	Strategic design of magnetic carbonaceous nanocomposites and its application as multifunctional adsorbent. <i>Carbon</i> , 2020, 161, 758-771.	5.4	25

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19	Triphenylenes: two-dimensional acenaphthalene-based nanocarbon allotropes. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23195-23206.	1.3	10
20	Tip-Enhanced Raman spectroscopy investigations of core-shell Ag-proteins nanoparticles synthesized by <i>Rhodotorula mucilaginosa</i> and <i>Rhodotorula glutinis</i> fungi. <i>Vibrational Spectroscopy</i> , 2020, 110, 103104.	1.2	5
21	Electronic and structural properties of tetragraphenes. <i>Carbon</i> , 2020, 167, 403-413.	5.4	11
22	Mo-doped WO ₃ nanowires for adsorbing methylene blue dye from wastewater. <i>Journal of Materials Science</i> , 2020, 55, 6429-6440.	1.7	15
23	Graphene nanoribbons and iron oxide nanoparticles composite as a potential candidate in DNA sensing applications. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	14
24	Vibrational Spectroscopy and Morphological Studies on Protein-Capped Biosynthesized Silver Nanoparticles. <i>ACS Omega</i> , 2020, 5, 386-393.	1.6	14
25	Temperature-dependent phonon dynamics and anharmonicity of suspended and supported few-layer gallium sulfide. <i>Nanotechnology</i> , 2020, 31, 495702.	1.3	10
26	Elastic properties of graphyne-based nanotubes. <i>Computational Materials Science</i> , 2019, 170, 109153.	1.4	25
27	Structural and vibrational properties of carbonophosphates: Na ₃ MCO ₃ PO ₄ (M = Mn, Fe, Co and Ni). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 223, 117298.	2.0	9
28	On the formation of protein corona on colloidal nanoparticles stabilized by depletant polymers. <i>Materials Science and Engineering C</i> , 2019, 105, 110080.	3.8	13
29	Temperature-dependent phonon dynamics of supported and suspended monolayer tungsten diselenide. <i>AIP Advances</i> , 2019, 9, .	0.6	27
30	Probing Spatial Phonon Correlation Length in Post-Transition Metal Monochalcogenide GaS Using Tip-Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2019, 19, 7357-7364.	4.5	30
31	Nanomaterials Properties of Environmental Interest and How to Assess Them. , 2019, , 45-105.		2
32	Interaction of graphene oxide with cell culture medium: Evaluating the fetal bovine serum protein corona formation towards in vitro nanotoxicity assessment and nanobiointeractions. <i>Materials Science and Engineering C</i> , 2019, 100, 363-377.	3.8	52
33	Structural and electronic properties of nanotubes constructed from fragmented fullerenes. <i>Carbon</i> , 2019, 147, 616-627.	5.4	10
34	Towards the production of natural rubber-calcium phosphate hybrid for applications as bioactive coatings. <i>Materials Science and Engineering C</i> , 2019, 94, 417-425.	3.8	8
35	From high pressure radial collapse to graphene ribbon formation in triple-wall carbon nanotubes. <i>Carbon</i> , 2019, 141, 568-579.	5.4	31
36	Electronic properties of tetragraphene nanoribbons. <i>Physical Review Materials</i> , 2019, 3, .	0.9	14

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37	(Invited) Resonance Raman Spectroscopy Studies in 2D and 1D Nanocarbons. ECS Meeting Abstracts, 2019, , .	0.0	0
38	Effects of pressure on the structural and electronic properties of linear carbon chains encapsulated in double wall carbon nanotubes. Carbon, 2018, 133, 446-456.	5.4	47
39	Mechanical Properties of Pentagraphene-based Nanotubes: A Molecular Dynamics Study. MRS Advances, 2018, 3, 97-102.	0.5	10
40	Absorption of Light in Solids. Graduate Texts in Physics, 2018, , 365-389.	0.1	2
41	Lattice Vibrations. Graduate Texts in Physics, 2018, , 105-121.	0.1	0
42	Mechanical Properties of Phagraphene Membranes: A Fully Atomistic Molecular Dynamics Investigation. MRS Advances, 2018, 3, 67-72.	0.5	6
43	High efficiency spin-valve and spin-filter in a doped rhombic graphene quantum dot device. Journal of Magnetism and Magnetic Materials, 2018, 451, 532-539.	1.0	8
44	Pressure-induced phase transition and fracture in $\hat{1}\pm$ -MoO ₃ nanoribbons. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 193, 47-53.	2.0	12
45	Raman scattering studies of graphene under high pressure. Journal of Raman Spectroscopy, 2018, 49, 121-129.	1.2	45
46	Temperature-induced phase transition in h-MoO ₃ : Stability loss mechanism uncovered by Raman spectroscopy and DFT calculations. Vibrational Spectroscopy, 2018, 98, 98-104.	1.2	35
47	Laser-induced thermal effects in hexagonal MoO ₃ nanorods. Vibrational Spectroscopy, 2018, 98, 145-151.	1.2	12
48	Influence of Surface Silanization on the Physicochemical Stability of Silver Nanocoatings: A Large Length Scale Assessment. Journal of Physical Chemistry C, 2017, 121, 11300-11311.	1.5	10
49	Pressure Tuning of Bromine Ionic States in Double-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2017, 121, 10609-10619.	1.5	8
50	Biaxial Strain Transfer in Supported Graphene. Nano Letters, 2017, 17, 21-27.	4.5	46
51	Pressure-induced radial collapse in few-wall carbon nanotubes: A combined theoretical and experimental study. Carbon, 2017, 125, 429-436.	5.4	27
52	One- and two-dimensional carbon nanostructures based on unfolded buckyballs: An <i>ab initio</i> investigation of their electronic properties. Physical Review B, 2017, 95, .	1.1	13
53	Coating carbon nanotubes with humic acid using an eco-friendly mechanochemical method: Application for Cu(II) ions removal from water and aquatic ecotoxicity. Science of the Total Environment, 2017, 607-608, 1479-1486.	3.9	27
54	Raman evidence for pressure-induced formation of diamondene. Nature Communications, 2017, 8, 96.	5.8	132

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55	Atomic-layered MoS ₂ on SiO ₂ under high pressure: Bimodal adhesion and biaxial strain effects. <i>Physical Review Materials</i> , 2017, 1, .	0.9	21
56	Characterization of Nanocarbons: From Graphene to Graphene Nanoribbons (GNRs) and Quantum Dots (QDs). , 2017, , 315-338.		0
57	Raman Studies of Carbon Nanostructures. <i>Annual Review of Materials Research</i> , 2016, 46, 357-382.	4.3	112
58	Pre-Patterned CVD Graphene: Insights on ALD deposition parameters and their influence on Al ₂ O ₃ and graphene layers. <i>MRS Advances</i> , 2016, 1, 1401-1409.	0.5	2
59	Physical properties of low-dimensional carbon nanostructures. <i>Reviews of Modern Physics</i> , 2016, 88, .	1.6	160
60	Pressure-induced structural transformations in In _{2-x} Y _x (MoO ₄) ₂ . <i>Journal of Applied Physics</i> , 2016, 119, 122301.	1.2	8
61	Phonon properties of $\hat{1}^2$ -Ag ₂ MoO ₄ : Raman spectroscopy and ab initio calculations. <i>Vibrational Spectroscopy</i> , 2016, 86, 97-102.	1.2	33
62	Nanotoxicology of Carbon-Based Nanomaterials. <i>Nanomedicine and Nanotoxicology</i> , 2016, , 105-137.	0.1	2
63	Gas Sensors Based on Locally Heated Multiwall Carbon Nanotubes Decorated with Metal Nanoparticles. <i>Journal of Sensors</i> , 2015, 2015, 1-8.	0.6	5
64	High Pressure Induced Binding Between Linear Carbon Chains and Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1752, 53-58.	0.1	0
65	Mechanisms of Colloidal Stabilization of Oxidized Nanocarbons in the Presence of Polymers: Obtaining Highly Stable Colloids in Physiological Media. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18741-18752.	1.5	19
66	Linear Carbon Chains under High-Pressure Conditions. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10669-10676.	1.5	46
67	Linear carbon chains encapsulated in multiwall carbon nanotubes: Resonance Raman spectroscopy and transmission electron microscopy studies. <i>Carbon</i> , 2015, 90, 172-180.	5.4	63
68	Optimized graphene transfer: Influence of polymethylmethacrylate (PMMA) layer concentration and baking time on graphene final performance. <i>Carbon</i> , 2015, 84, 82-90.	5.4	187
69	Carbon Nanotubes: From Synthesis to Genotoxicity. <i>Nanomedicine and Nanotoxicology</i> , 2014, , 125-152.	0.1	3
70	Formation of reliable electrical and thermal contacts between graphene and metal electrodes by laser annealing. <i>Microelectronic Engineering</i> , 2014, 121, 55-58.	1.1	8
71	Anti-adhesion and antibacterial activity of silver nanoparticles supported on graphene oxide sheets. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 115-124.	2.5	342
72	Disorder-Induced Rectification in a Molecular System. <i>Brazilian Journal of Physics</i> , 2014, 44, 30-38.	0.7	0

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73	Hollow carbon nanostructures obtained from hydrothermal carbonization of lignocellulosic biomass. <i>Journal of Materials Science</i> , 2014, 49, 665-672.	1.7	16
74	Eco-friendly decoration of graphene oxide with biogenic silver nanoparticles: antibacterial and antibiofilm activity. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	75
75	Resource Letter N-1: Nanotechnology. <i>American Journal of Physics</i> , 2014, 82, 8-22.	0.3	3
76	Raman spectroscopy for probing covalent functionalization of single-wall carbon nanotubes bundles with gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	5
77	Influence of concentration and position of carboxyl groups on the electronic properties of single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21602-21608.	1.3	13
78	Electronic and magnetic structures of coronene-based graphitic nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3603.	1.3	10
79	Fermi-Energy-Dependent Structural Deformation of Chiral Single-Wall Carbon Nanotubes. <i>Physical Review Applied</i> , 2014, 2, .	1.5	1
80	Influence of hydrothermal carbonization on formation of curved graphite structures obtained from a lignocellulosic precursor. <i>Carbon</i> , 2014, 78, 609-612.	5.4	40
81	Molecular Spintronics: Destructive Quantum Interference Controlled by a Gate. <i>Journal of the American Chemical Society</i> , 2014, 136, 15065-15071.	6.6	65
82	Pressure-Induced Selectivity for Probing Inner Tubes in Double- and Triple-Walled Carbon Nanotubes: A Resonance Raman Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8153-8158.	1.5	32
83	Topography-driven bionano-interactions on colloidal silica nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3437-3447.	4.0	27
84	Exploring the use of biosurfactants from <i>Bacillus subtilis</i> in bionanotechnology: A potential dispersing agent for carbon nanotube ecotoxicological studies. <i>Process Biochemistry</i> , 2014, 49, 1162-1168.	1.8	17
85	Improvement of Electrical and Thermal Contacts Between Carbon Nanotubes and Metallic Electrodes by Laser Annealing. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2014, 9, 374-380.	0.1	4
86	Local Laser Annealing of Contacts Between MWCNTs and Metallic Electrodes. <i>Journal of Integrated Circuits and Systems</i> , 2014, 9, 103-109.	0.3	2
87	Resonance effects on the Raman spectra of graphene superlattices. <i>Physical Review B</i> , 2013, 88, .	1.1	128
88	High-pressure Raman scattering of MgMoO ₄ . <i>Vibrational Spectroscopy</i> , 2013, 68, 34-39.	1.2	22
89	Spin Transport of Polyacetylene Chains Bridging Zigzag Graphene Nanoribbon Electrodes: A Nonequilibrium Treatment of Structural Control and Spin Filtering. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21178-21185.	1.5	16
90	Enhanced Solubilization of Carbon Nanotubes in Aqueous Suspensions of Anionic-Nonionic Surfactant Mixtures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25138-25145.	1.5	9

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91	Pressure-induced crystal \rightarrow amorphous transformation in Y ₂ Mo ₃ O ₁₂ . Vibrational Spectroscopy, 2013, 68, 251-256.	1.2	20
92	Temperature effects on the nitric acid oxidation of industrial grade multiwalled carbon nanotubes. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	36
93	Graphene-like nanostructures obtained from Biomass. Materials Research Society Symposia Proceedings, 2013, 1505, 1.	0.1	5
94	Improvement of the electrical contact between carbon nanotubes and metallic electrodes by laser irradiation. , 2013, , .		2
95	Inflammatory and Hyperalgesic Effects of Oxidized Multi-Walled Carbon Nanotubes in Rats. Journal of Nanoscience and Nanotechnology, 2013, 13, 5276-5282.	0.9	3
96	Effects of intercalation and inhomogeneous filling on the collapse pressure of double-wall carbon nanotubes. Physical Review B, 2012, 86, .	1.1	20
97	Unveiling the Role of Oxidation Debris on the Surface Chemistry of Graphene through the Anchoring of Ag Nanoparticles. Chemistry of Materials, 2012, 24, 4080-4087.	3.2	84
98	Light emission and current rectification in a molecular device: Experiment and theory. Journal of Applied Physics, 2012, 112, 113108.	1.1	0
99	Structural depth profile and nanoscale piezoelectric properties of randomly oriented Pb(Zr _{0.50} Ti _{0.50})O ₃ thin films. Journal Physics D: Applied Physics, 2012, 45, 215304.	1.3	9
100	Nanostructured silver vanadate as a promising antibacterial additive to water-based paints. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 935-940.	1.7	129
101	Structural and electronic properties of graphitic nanowiggles. Physical Review B, 2012, 85, .	1.1	24
102	Towards long-term colloidal stability of silica-based nanocarriers for hydrophobic molecules: beyond the St \ddot{a} ber method. Chemical Communications, 2012, 48, 591-593.	2.2	39
103	Structural and Phonon Properties of Bundled Single- and Double-Wall Carbon Nanotubes Under Pressure. Journal of Physical Chemistry C, 2012, 116, 22637-22645.	1.5	41
104	Suppression of the hemolytic effect of mesoporous silica nanoparticles after protein corona interaction: independence of the surface microchemical environment. Journal of the Brazilian Chemical Society, 2012, 23, 1807-1814.	0.6	55
105	Temperature \rightarrow dependent Raman spectroscopy study in MoO ₃ nanoribbons. Journal of Raman Spectroscopy, 2012, 43, 1407-1412.	1.2	33
106	Optical properties of single wall carbon nanotubes dispersed in biopolymers. Journal of Physics and Chemistry of Solids, 2012, 73, 232-236.	1.9	3
107	Pressure-induced structural phase transitions and amorphization in selected molybdates and tungstates. Progress in Materials Science, 2012, 57, 1335-1381.	16.0	106
108	Pressure-Induced Collapse in Double-Walled Carbon Nanotubes: Chemical and Mechanical Screening Effects. Journal of Physical Chemistry C, 2011, 115, 5378-5384.	1.5	79

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109	Electronic transport properties of carbon nanotoroids. <i>Nanotechnology</i> , 2011, 22, 075701.	1.3	6
110	TiO ₂ - and CeO ₂ -Based Biphasic Core-Shell Nanoparticles with Tunable Core Sizes and Shell Thicknesses. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10380-10387.	1.5	20
111	Hydrotalcites: a highly efficient ecomaterial for effluent treatment originated from carbon nanotubes chemical processing. <i>Journal of Physics: Conference Series</i> , 2011, 304, 012024.	0.3	3
112	Emergence of Atypical Properties in Assembled Graphene Nanoribbons. <i>Physical Review Letters</i> , 2011, 107, 135501.	2.9	69
113	Structural and optical properties of rare earth-doped (Ba _{0.77} Ca _{0.23}) _{1-x} (Sm, Nd, Pr, Yb) _x TiO ₃ . <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	26
114	van der Waals potential barrier for cobaltocene encapsulation into single-walled carbon nanotubes: classical molecular dynamics and ab initio study. <i>Molecular Simulation</i> , 2011, 37, 746-751.	0.9	1
115	Alkali metal intercalated titanate nanotubes: A vibrational spectroscopy study. <i>Vibrational Spectroscopy</i> , 2011, 55, 183-187.	1.2	95
116	Theory of zwitterionic molecular-based organic magnets. <i>Chemical Physics Letters</i> , 2011, 511, 294-298.	1.2	7
117	Highlighting the mechanisms of the titanate nanotubes to titanate nanoribbons transformation. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3259-3265.	0.8	17
118	Vibrational properties of Cs ₄ W ₁₁ O ₃₅ and Rb ₄ W ₁₁ O ₃₅ systems: high pressure and polarized Raman spectra. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 474-481.	1.2	9
119	Surface Chemistry in the Process of Coating Mesoporous SiO ₂ onto Carbon Nanotubes Driven by the Formation of Si-O-C Bonds. <i>Chemistry - A European Journal</i> , 2011, 17, 3228-3237.	1.7	50
120	Structural and proactive safety aspects of oxidation debris from multiwalled carbon nanotubes. <i>Journal of Hazardous Materials</i> , 2011, 189, 391-396.	6.5	57
121	Temperature dependent Raman scattering study of l-ascorbic acid. <i>Vibrational Spectroscopy</i> , 2011, 55, 101-106.	1.2	15
122	Understanding the interaction of multi-walled carbon nanotubes with mutagenic organic pollutants using computational modeling and biological experiments. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 437-446.	5.8	23
123	$\frac{D}{G}$ band Raman intensity calculation in armchair edged graphene nanoribbons. <i>Physical Review B</i> , 2011, 83, .	1.1	14
124	Electronic transmission selectivity in multiterminal graphitic nanorings. <i>Applied Physics Letters</i> , 2011, 98, 112111.	1.5	5
125	Nanomaterials Properties. , 2011, , 5-22.		4
126	Raman spectroscopy study of Na ₂ MoO ₄ ·2H ₂ O and Na ₂ MoO ₄ under hydrostatic pressure. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 576-581.	1.2	23

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127	Defect characterization in graphene and carbon nanotubes using Raman spectroscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 5355-5377.	1.6	571
128	Recycling dodecylamine intercalated vanadate nanotubes. Journal of Nanoparticle Research, 2010, 12, 367-372.	0.8	7
129	Nicotine adsorption on single wall carbon nanotubes. Journal of Hazardous Materials, 2010, 184, 678-683.	6.5	19
130	1st Brazilian Meeting on Raman Spectroscopy (BMRS), São Pedro, São Paulo, Brazil. Vibrational Spectroscopy, 2010, 54, 83.	1.2	0
131	Temperature dependent behavior of single walled MoO ₃ nanotubes: A Raman spectroscopy study. Vibrational Spectroscopy, 2010, 54, 179-183.	1.2	47
132	Torsional instability of chiral carbon nanotubes. Physical Review B, 2010, 81, .	1.1	32
133	Lattice dynamics and pressure-induced phase transitions in Bi ₂ W ₂ O ₉ : High-pressure Raman study. Physical Review B, 2010, 81, .	1.1	23
134	High-pressure Raman scattering study of ferroelectric $K_3\text{Fe}_2\text{O}_7$. Physical Review B, 2010, 82, .	1.1	2
135	Ion implantation effect on Resonance Raman spectroscopy of double-wall carbon nanotubes. , 2010, , .		0
136	PHYSICAL PROPERTIES OF TELLURITE GLASSES PREPARED UNDER DIFFERENT THERMAL HISTORIES. Modern Physics Letters B, 2010, 24, 527-537.	1.0	1
137	Benzonitrile Adsorption on Fe-Doped Carbon Nanostructures. Journal of Physical Chemistry C, 2010, 114, 10790-10795.	1.5	18
138	Functionalization of single-wall carbon nanotubes through chloroform adsorption: theory and experiment. Physical Chemistry Chemical Physics, 2010, 12, 1518.	1.3	27
139	Development of nanostructured silver vanadates decorated with silver nanoparticles as a novel antibacterial agent. Nanotechnology, 2010, 21, 185102.	1.3	93
140	Carbon Nanotubes Under High Pressure Probed by Resonance Raman Scattering. NATO Science for Peace and Security Series B: Physics and Biophysics, 2010, , 435-446.	0.2	4
141	Phonon properties, polymorphism, and amorphization of Dy ₂ Mo ₄ O ₁₅ under high hydrostatic pressure. Physical Review B, 2010, 82, .	1.1	14
142	Structural, morphological and vibrational properties of titanate nanotubes and nanoribbons. Journal of the Brazilian Chemical Society, 2009, 20, 167-175.	0.6	58
143	Resonance Raman spectroscopy in Si and C ion-implanted double-wall carbon nanotubes. Physical Review B, 2009, 80, .	1.1	19
144	Structural and vibrational properties of $K_3\text{Fe}(\text{MoO}_4)_2(\text{MoO}_7)$ a novel layered molybdate. Journal of Physics Condensed Matter, 2009, 21, 095402.	0.7	16

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145	Crystallization kinetics and thermal properties of 20Li ₂ O-80TeO ₂ glass. Materials Research Bulletin, 2009, 44, 1596-1600.	2.7	9
146	Lattice dynamics and low-temperature Raman spectroscopy studies of PMN-PT relaxors. Journal of Raman Spectroscopy, 2009, 40, 1144-1149.	1.2	48
147	Vibrational studies of hexagonal bronze systems: phonon calculation and high pressure induced phase transformation. Journal of Raman Spectroscopy, 2009, 40, 1150-1157.	1.2	6
148	Non-covalent interaction of benzonitrile with single-walled carbon nanotubes. Journal of Nanoparticle Research, 2009, 11, 2163-2170.	0.8	5
149	High Catalytic Activity of Nitrogen-Containing Carbon from Molecular Sieves in Fine Chemistry. Catalysis Letters, 2009, 131, 135-145.	1.4	20
150	Conductive carbon-clay nanocomposites from petroleum oily sludge. Journal of Hazardous Materials, 2009, 167, 879-884.	6.5	22
151	Investigation of the light emission efficiency of single-wall carbon nanotubes wrapped with different surfactants. Chemical Physics Letters, 2009, 473, 96-101.	1.2	39
152	Anchoring Silanols Radicals on Carbon Nanotubes. Journal of Computational and Theoretical Nanoscience, 2009, 6, 548-551.	0.4	0
153	Decorating Titanate Nanotubes with CeO ₂ Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 20234-20239.	1.5	56
154	Î ³ -Fe ₂ O ₃ nanoparticles dispersed in porous Vycor glass: A magnetically diluted integrated system. Journal of Applied Physics, 2009, 105, .	1.1	18
155	Properties and Applications of Doped Carbon Nanotubes. , 2009, , 223-269.		3
156	Pressure-induced phase transformations in l-alanine crystals. Journal of Physics and Chemistry of Solids, 2008, 69, 1641-1645.	1.9	30
157	Temperature-dependent Raman scattering studies of Na ₂ MoO ₄ . Journal of Raman Spectroscopy, 2008, 39, 937-941.	1.2	52
158	Chemical doping-induced gap opening and spin polarization in graphene. Physical Review B, 2008, 77, .	1.1	128
159	Switching on magnetism in Ni-doped graphene: Density functional calculations. Physical Review B, 2008, 78, .	1.1	83
160	Electrical Rectification in Betaine Derivatives. Journal of Physical Chemistry C, 2008, 112, 12008-12011.	1.5	10
161	Synthesis and Characterization of Selenium-Carbon Nanocables. Nano Letters, 2008, 8, 3651-3655.	4.5	21
162	A single molecule rectifier with strong push-pull coupling. Journal of Chemical Physics, 2008, 129, 204701.	1.2	17

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163	Phonons in ferroelectric Bi ₂ WO ₆ : Raman and infrared spectra and lattice dynamics. Applied Physics Letters, 2008, 92, .	1.5	73
164	Phonon-instability-driven phase transitions in ferroelectric Bi_2WO_6 . Physical Review B, 2008, 78, .	1.1	62
165	Lattice dynamics and high-pressure Raman scattering studies of ferroelectric K_2MgWO_6 . Physical Review B, 2008, 78, .	1.1	10
166	Synthesis, characterization and catalytic properties of nanostructured porous carbon. Studies in Surface Science and Catalysis, 2008, 174, 1303-1306.	1.5	7
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