

# Paulo de Tarso Cavalcante Freire

## List of Publications by Year in descending order

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203  
papers

3,048  
citations

249298

26  
h-index

299063

42  
g-index

204  
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204  
docs citations

204  
times ranked

3415  
citing authors

#	ARTICLE	IF	CITATIONS
1	Na-TiNT Nanocrystals: Synthesis, Characterization, and Antibacterial Properties. <i>Bioinorganic Chemistry and Applications</i> , 2022, 2022, 1-10.	1.8	3
2	Crystal engineering of aurophilic supramolecular architectures and coordination polymers based on butterfly-like copper dicyanoaurate complexes: vapochromism, P-T behaviour and multi-metallic cocrystal formation. <i>CrystEngComm</i> , 2022, 24, 2336-2348.	1.3	5
3	Vibrational spectroscopy and lattice dynamic calculation on the MnMoO <sub>4</sub> system. <i>Journal of Solid State Chemistry</i> , 2022, 311, 123105.	1.4	2
4	Pressure-Induced Structural and Optical Transitions in Luminescent Bulk Cs <sub>4</sub> PbBr <sub>6</sub> . <i>Journal of Physical Chemistry C</i> , 2022, 126, 541-550.	1.5	6
5	Polymorphism at hexadecanoic-acid crystals investigated through structural and vibrational studies. <i>Vibrational Spectroscopy</i> , 2022, , 103402.	1.2	2
6	Synthesis, crystal structure and ATR-FTIR, FT-Raman and UV-Vis spectroscopic analysis of dihydrochalcone (3R)-3-(4-chlorophenyl)-3-hydroxy-1-(2-hydroxyphenyl)propan-1-one. <i>Journal of Molecular Structure</i> , 2022, 1266, 133516.	1.8	5
7	Blue-light-excited NaCe(MoO <sub>4</sub> ) <sub>2</sub> microcrystals for photoelectrochemical water splitting. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 615-621.	1.1	3
8	Aminophenyl chalcones potentiating antibiotic activity and inhibiting bacterial efflux pump. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 158, 105695.	1.9	18
9	Temperature-induced structural phase transformation in samples of Co <sub>3</sub> O <sub>4</sub> and Co <sub>3-x</sub> Ni <sub>x</sub> O <sub>4</sub> for CoO. <i>Materialia</i> , 2021, 18, 101155.	1.3	9
10	Synthesis of Cu-TiNT, characterization, and antibacterial properties evaluation. <i>Materials Today Chemistry</i> , 2021, 21, 100539.	1.7	6
11	Characterization and Evaluation of Layered Bi <sub>2</sub> WO <sub>6</sub> Nanosheets as a New Antibacterial Agent. <i>Antibiotics</i> , 2021, 10, 1068.	1.5	6
12	Synthesis, structural and spectroscopic characterization, in silico study, and antinociceptive effect in adult zebrafish of 2-(4-isobutylphenyl)-N'-phenylpropanohydrazide. <i>Journal of Molecular Structure</i> , 2021, 1243, 130860.	1.8	4
13	Structural and spectroscopic analysis of the Cis-Trans isomers of the captopril in the gaseous and aqueous phases. <i>Journal of Molecular Structure</i> , 2021, 1243, 130872.	1.8	2
14	Pressure-induced phase transition in Glycinium maleate crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 262, 120076.	2.0	5
15	High-pressure study by Raman spectroscopy and DFT calculations of L-tyrosine hydrobromide crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 263, 120142.	2.0	2
16	Evidence of Pressure-Induced Phase Transitions and Negative Linear Compressibility in Formamidinium Manganese-Hypophosphite Hybrid Perovskite. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26958-26966.	1.5	8
17	Low-wavenumber Raman spectra of L-tyrosine, L-tyrosine hydrochloride, and L-tyrosine hydrobromide crystals at high temperatures. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109129.	1.9	4
18	Temperature dependence Raman spectroscopy and DFT calculations of Bi <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117340.	2.0	10

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19	Characterization of zinc complex with 4-[[1E)-(2 Hydroxyphenyl)methylidene]amino]-1,5-dimethyl-2-phenyl-1,2-dihydro-3H-pyrazol-3-one by FT-IR and FT-Raman spectroscopies and DFT calculations. <i>Journal of Molecular Structure</i> , 2020, 1202, 127295.	1.8	5
20	Low-Temperature Phase Transition of Dodecanoic Acid Crystals: A Study Using Raman, Powder X-ray Diffraction, and Density Functional Theory Calculations. <i>Crystal Growth and Design</i> , 2020, 20, 281-290.	1.4	12
21	Low-temperature induced phase transitions in BaWO <sub>4</sub> :Er <sup>3+</sup> microcrystals: A Raman scattering study. <i>Journal of Molecular Structure</i> , 2020, 1204, 127498.	1.8	10
22	High-pressure studies on l,l-dileucine crystals by Raman spectroscopy and synchrotron X-ray diffraction combined with DFT calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 229, 117899.	2.0	6
23	NMR and Raman Scattering Studies of Temperature- and Pressure-Driven Phase Transitions in CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> PbCl <sub>3</sub> Perovskite. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26999-27008.	1.5	30
24	High pressure Raman spectra and DFT calculation of glyphosate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 242, 118745.	2.0	4
25	Raman spectroscopy of captopril crystals under low-temperature conditions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 243, 118734.	2.0	3
26	Structural and spectroscopic investigation of the chalcones (E)-1-(4-aminophenyl)-3-(4-ethoxyphenyl)-prop-2-en-1-one and (E)-1-(aminophenyl)-3-(4-methoxyphenyl)-prop-2-en-1-one. <i>Vibrational Spectroscopy</i> , 2020, 110, 103118.	1.2	2
27	Temperature-induced phase transitions in metastable $\beta$ -Ag <sub>2</sub> WO <sub>4</sub> : a Raman scattering study. <i>Vibrational Spectroscopy</i> , 2020, 110, 103135.	1.2	2
28	New bladed habit of hexadecanoic-acid crystals observed by SEM combined with XRD, FT-IR and Raman studies. <i>Vibrational Spectroscopy</i> , 2020, 111, 103174.	1.2	1
29	Effect of Fe (III) on L-asparagine monohydrate investigated under low- and high-temperature conditions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 241, 118643.	2.0	3
30	Chemical and mineral comparison of fossil insect cuticles from Crato Konservat Lagerstätte, Lower Cretaceous of Brazil. <i>Journal of Iberian Geology</i> , 2020, 46, 61-76.	0.7	19
31	Pressure-induced phase transitions in DL-glutamic acid monohydrate crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 230, 118059.	2.0	3
32	Vibrational spectroscopy study and ab initio calculation on ZnMoO <sub>4</sub> system. <i>Journal of Molecular Structure</i> , 2020, 1206, 127776.	1.8	7
33	Structural, vibrational and electrochemical analysis and antibiotic activity study of chalcone (2E)-1-(3-methoxy-4-hydroxyphenyl)-3-(3-nitrophenyl)prop-2-en-1-one. <i>Journal of Molecular Structure</i> , 2020, 1216, 128358.	1.8	23
34	Lattice dynamics calculations and high-pressure Raman spectra of the ZnMoO <sub>4</sub> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 239, 118501.	2.0	7
35	Understanding the effect of solvent polarity on the polymorphism of octadecanoic acid through spectroscopic techniques and DFT calculations. <i>CrystEngComm</i> , 2019, 21, 297-309.	1.3	24
36	Groundwater Remediation Using Nanomaterials. , 2019, , 381-402.		2

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37	Removal of Pesticides and Volatile Organic Pollutants With Nanoparticles. , 2019, , 405-426.		2
38	Raman spectra of captopril under high pressure. <i>Vibrational Spectroscopy</i> , 2019, 102, 116-124.	1.2	4
39	High pressure Raman scattering of DL-iso-leucine crystals and DFT calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 214, 207-215.	2.0	3
40	Structural, spectroscopic and microbiological characterization of the chalcone 2E-1-(2-hydroxy-3,4,6-trimethoxyphenyl)-3-(phenyl)-prop-2-en-1-one derived from the natural product 2-hydroxy-3,4,6-trimethoxyacetophenone. <i>Journal of Molecular Structure</i> , 2019, 1179, 739-748.	1.8	22
41	Raman and infrared spectroscopy investigation of the root fossil (rhizoliths) from the Carboniferous period, Piauí-Formation, Parnaíba Sedimentary Basin, Northeast Brazil. <i>Vibrational Spectroscopy</i> , 2019, 100, 117-122.	1.2	2
42	Temperature-induced isostructural phase transition on NaCe(MoO <sub>4</sub> ) <sub>2</sub> system: A Raman scattering study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 208, 229-235.	2.0	13
43	Phase transformation in the C form of myristic-acid crystals and DFT calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 208, 97-108.	2.0	7
44	The Behavior of NH <sub>3</sub> <sup>+</sup> Torsional Vibration in Amino Acids: A Raman Spectroscopic Study. <i>Crystals</i> , 2019, 9, 517.	1.0	1
45	Physicochemical investigation of shrimp fossils from the Romualdo and Ipubi formations (Araripe) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342 Td (-)-1-(4-aminophenyl)ethanone	0.9	7
46	Synthesis, characterizations, and antibacterial properties of PbMoO <sub>4</sub> nanocrystals. <i>Arabian Journal of Chemistry</i> , 2018, 11, 739-746.	2.3	12
47	FT-Raman and FT-IR spectra and DFT calculations of chalcone (2 E) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342 Td (-)-1-(4-aminophenyl)ethanone	1.2	13
48	Raman studies of nanocomposites catalysts: temperature and pressure effects of CeAl, CeMn and NiAl oxides. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 198, 160-167.	2.0	6
49	Pressure-induced phase transition and fracture in $\hat{\Gamma}_2$ -MoO <sub>3</sub> nanoribbons. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 193, 47-53.	2.0	12
50	High-pressure Raman spectra and DFT calculations of l-tyrosine hydrochloride crystal. <i>Physica B: Condensed Matter</i> , 2018, 531, 35-44.	1.3	7
51	High pressure studies on bis(l-histidinate)nickel(II) monohydrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 189, 258-264.	2.0	3
52	Physicochemical analysis of Permian coprolites from Brazil. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 189, 93-99.	2.0	5
53	The Behavior of the Deformation Vibration of NH <sub>3</sub> in Semi-Organic Crystals under High Pressure Studied by Raman Spectroscopy. <i>Crystals</i> , 2018, 8, 245.	1.0	3
54	Spectroscopic studies on Permian plant fossils in the Pedra de Fogo Formation from the Parnaíba Basin, Brazil. <i>Journal of King Saud University - Science</i> , 2018, 30, 483-488.	1.6	5

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55	Vibrational spectroscopy study of essential oils from <i>Plectranthus amboinicus</i> Lour. Spreng and <i>Vanillosmopsis arborea</i> Baker. <i>Vibrational Spectroscopy</i> , 2018, 98, 22-29.	1.2	9
56	Temperature-induced phase transition in h-MoO <sub>3</sub> : Stability loss mechanism uncovered by Raman spectroscopy and DFT calculations. <i>Vibrational Spectroscopy</i> , 2018, 98, 98-104.	1.2	35
57	Modulation of antibiotic effect by Fe <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> microstructures. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 123, 295-300.	1.9	9
58	Vibrational properties of L-cysteine hydrochloride monohydrate crystal under high-pressure. <i>Vibrational Spectroscopy</i> , 2018, 98, 92-97.	1.2	5
59	Raman spectroscopy under high pressures and DFT calculations of the amino acid l-glutamine. <i>Vibrational Spectroscopy</i> , 2018, 98, 69-76.	1.2	6
60	Vibrational and structural properties of L-Alanyl-L-Phenylalanine dipeptide by Raman spectroscopy, infrared and DFT calculations. <i>Vibrational Spectroscopy</i> , 2018, 98, 128-133.	1.2	16
61	Laser-induced thermal effects in hexagonal MoO <sub>3</sub> nanorods. <i>Vibrational Spectroscopy</i> , 2018, 98, 145-151.	1.2	12
62	High-temperature Raman spectroscopy of L,L-diphenylalanine single-crystal. <i>Vibrational Spectroscopy</i> , 2018, 97, 75-84.	1.2	5
63	Crystal structure, vibrational spectra and quantum chemical parameters of 2-hydroxy-3,4,6-trimethoxyacetophenone isolated from the <i>Croton anisodontus</i> MÃ¼ll. Arg. (Euphorbiaceae). <i>Journal of Molecular Structure</i> , 2018, 1171, 815-826.	1.8	14
64	Hydrogen bonds in crystalline D-alanine: diffraction and spectroscopic evidence for differences between enantiomers. <i>IUCr</i> , 2018, 5, 6-12.	1.0	7
65	Response to comment on 'Hydrogen bonds in crystalline D-alanine: diffraction and spectroscopic evidence for differences between enantiomers'. <i>IUCr</i> , 2018, 5, 658-659.	1.0	0
66	High-temperature study of beta-alanine crystals. <i>Vibrational Spectroscopy</i> , 2017, 89, 69-74.	1.2	7
67	High-pressure Raman spectra of thymidine crystals. <i>Vibrational Spectroscopy</i> , 2017, 89, 62-68.	1.2	4
68	Vibrational investigation of pressure- and temperature-induced phase transitions in metal formates templated by ethylammonium ions. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 972-982.	1.2	10
69	Pressure induced transformations in sorbic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 184, 327-334.	2.0	4
70	Low-temperature Raman spectra of the 2-(±-methylbenzylamino)-5-nitropyridine crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 183, 209-217.	2.0	1
71	Synthesis, crystal structure, vibrational spectra and theoretical calculations of quantum chemistry of a potential antimicrobial Meldrum's acid derivative. <i>Journal of Molecular Structure</i> , 2017, 1146, 828-836.	1.8	7
72	Temperature induced phase transformations on the Li <sub>2</sub> MoO <sub>4</sub> system studied by Raman spectroscopy. <i>Journal of Molecular Structure</i> , 2017, 1139, 119-124.	1.8	15

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73	$\hat{\Gamma}^2$ -Ag <sub>2</sub> MoO <sub>4</sub> microcrystals: Characterization, antibacterial properties and modulation analysis of antibiotic activity. <i>Biomedicine and Pharmacotherapy</i> , 2017, 86, 242-247.	2.5	39
74	Spectroscopic and microbiological characterization of labdane diterpene 15,16-epoxy-4-hydroxy-labda-13(16),14-dien-3,12-dione isolated from the stems of <i>Croton jacobinensis</i> . <i>Journal of Molecular Structure</i> , 2017, 1147, 335-344.	1.8	11
75	Raman spectroscopy of l,l-diphenylalanine crystal under high pressure. <i>Vibrational Spectroscopy</i> , 2017, 92, 173-181.	1.2	6
76	NaCe(MoO <sub>4</sub> ) <sub>2</sub> microcrystals: Hydrothermal synthesis, characterization and photocatalytic performance. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 111, 258-265.	1.9	16
77	Raman evidence for pressure-induced formation of diamondene. <i>Nature Communications</i> , 2017, 8, 96.	5.8	132
78	High-pressure Raman study of mono-l-alaninium nitrate crystals. <i>Physica B: Condensed Matter</i> , 2017, 521, 317-322.	1.3	5
79	Raman spectroscopy of $\hat{\Gamma}^3$ -aminobutyric acid under high pressure. <i>Vibrational Spectroscopy</i> , 2017, 92, 162-168.	1.2	6
80	Vibrational spectroscopy and DFT calculations of flavonoid derriobtusone A. <i>Journal of Molecular Structure</i> , 2017, 1130, 231-237.	1.8	7
81	Structural changes in nanostructured catalytic oxides monitored by Raman spectroscopy: Effect of the laser heating. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 102, 90-98.	1.9	10
82	Infrared and Raman spectroscopy and DFT calculations of DL amino acids: Valine and lysine hydrochloride. <i>Journal of Molecular Structure</i> , 2017, 1127, 419-426.	1.8	19
83	High pressure Raman scattering study on Sm <sub>2</sub> Mo <sub>4</sub> O <sub>15</sub> system. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 174, 80-85.	2.0	6
84	Synthesis and Characterization of Nano-Particles of Niobium Pentoxide with Orthorhombic Symmetry. <i>Metals</i> , 2017, 7, 142.	1.0	21
85	Conformational change in the C form of palmitic acid investigated by Raman spectroscopy and X-ray diffraction. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 161, 162-169.	2.0	16
86	Raman spectroscopy of l-phenylalanine nitric acid submitted to high pressure. <i>Vibrational Spectroscopy</i> , 2016, 85, 97-103.	1.2	14
87	High pressure Raman spectra of DL-lysine hydrochloride. <i>Vibrational Spectroscopy</i> , 2016, 86, 337-342.	1.2	2
88	$\hat{\Gamma}^{\pm}$ -l-Glutamic acid under high pressure: Phase transitions studied by Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2016, 86, 343-349.	1.2	10
89	High-pressure Raman scattering on Fe <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> microcrystals obtained by a hydrothermal method. <i>Vibrational Spectroscopy</i> , 2016, 87, 88-93.	1.2	17
90	Pressure-induced structural transformations in In <sub>2-x</sub> Y <sub>x</sub> (MoO <sub>4</sub> ) <sub>3</sub> . <i>Journal of Physics and Chemistry of Solids</i> , 2016, 112, 100-103.	1.2	3

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91	Phonon properties of $\hat{I}^2$ -Ag <sub>2</sub> MoO <sub>4</sub> : Raman spectroscopy and ab initio calculations. <i>Vibrational Spectroscopy</i> , 2016, 86, 97-102.	1.2	33
92	Vibrational properties of diterpene rel-(1S, 4aS,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 712 Td (7S,8aS)-7-(vinyl)-tetradecahydro-1,4a-dimethyl-1,4-dihydro-1H-benzofuran-10-one by Raman and infrared spectroscopy together with ab initio calculations. <i>Vibrational Spectroscopy</i> , 2016, 85, 139-145.	1.2	1
93	Thermal and biological properties of the Schiff base N,N- $\hat{e}^2$ -bis(salicylidene)-1,2-phenylenediamine, a potential adjuvant to antibiotic therapy. <i>Journal of Molecular Structure</i> , 2016, 1115, 105-108.	1.8	11
94	Raman spectroscopic study of DL valine under pressure up to 20 $\hat{A}$ GPa. <i>Journal of Molecular Structure</i> , 2016, 1109, 220-225.	1.8	6
95	High pressure Raman spectra of monoglycine nitrate single crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 161, 109-114.	2.0	11
96	High-temperature Raman study of L-alanine, L-threonine and taurine crystals related to thermal decomposition. <i>Physica B: Condensed Matter</i> , 2016, 484, 22-26.	1.3	12
97	Spectroscopic studies of the fish fossils ( <i>Cladocycclus gardneri</i> and <i>Vinctifer comptoni</i> ) from the Ipubi Formation of the Cretaceous Period. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 157, 124-128.	2.0	5
98	Spectroscopy studies on Schiff base N,N- $\hat{e}^2$ -bis(salicylidene)-1,2-phenylenediamine by NMR, infrared, Raman and DFT calculations. <i>Journal of Molecular Structure</i> , 2015, 1097, 106-111.	1.8	24
99	Characterization of Meldrum $\hat{e}^2$ 's acid derivative 5-(5-Ethyl-1,3,4-thiadiazol-2-ylamino)methylene-2,2-dimethyl-1,3-dioxane-4,6-dione by Raman and FT-IR spectroscopy and DFT calculations. <i>Journal of Molecular Structure</i> , 2015, 1091, 37-42.	1.8	20
100	Pressure-induced phase transitions in acentric BaHf(BO <sub>3</sub> ) <sub>2</sub> . <i>Journal of Solid State Chemistry</i> , 2015, 228, 239-244.	1.4	2
101	Low-temperature phase transformation studies in the stearic acid: C form. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 148, 280-288.	2.0	17
102	Vibrational spectra and DFT calculations of sonderianin diterpene. <i>Journal of Molecular Structure</i> , 2015, 1099, 226-231.	1.8	8
103	The temperature-dependent single-crystal Raman spectroscopy of a model dipeptide: l-Alanyl-l-alanine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 148, 244-249.	2.0	6
104	New pressure-induced phase transitions of l-threonine crystal: A Raman spectroscopic study. <i>Journal of Molecular Structure</i> , 2015, 1092, 160-165.	1.8	17
105	Vibrational spectroscopy, ab initio calculations and Frontier Orbital analysis of 4,5,6,8,9-pentachloropyrimido-[1,2-a][1,8]naphthyridin-10-one. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 304-311.	2.0	2
106	Raman spectroscopy of monohydrated l-asparagine up to 30GPa. <i>Vibrational Spectroscopy</i> , 2015, 77, 35-39.	1.2	21
107	Large-Field Electron Imaging and X-ray Elemental Mapping Unveil the Morphology, Structure, and Fractal Features of a Cretaceous Fossil at the Centimeter Scale. <i>Analytical Chemistry</i> , 2015, 87, 10088-10095.	3.2	13
108	Temperature and high pressure effects on the structural features of catalytic nanocomposites oxides by Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 763-773.	2.0	16

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109	Temperature-dependent vibrational spectroscopic study and DFT calculations of the sorbic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 1409-1416.	2.0	12
110	Spectroscopic analysis and X-ray diffraction of trunk fossils from the Parna�ba Basin, Northeast Brazil. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 1052-1058.	2.0	13
111	High pressure Raman spectra of l-glutamic acid hydrochloride crystal. <i>Vibrational Spectroscopy</i> , 2014, 72, 15-19.	1.2	8
112	Temperature- and Pressure-Induced Phase Transitions in the Metal Formate Framework of $[ND_4][Zn(DCOO)_3]$ and $[NH_4][Zn(HCOO)_3]$ . <i>Inorganic Chemistry</i> , 2014, 53, 9615-9624.	1.9	72
113	Raman spectroscopy of d-methionine under high pressure. <i>Vibrational Spectroscopy</i> , 2014, 72, 57-61.	1.2	10
114	Vibrational spectroscopy and X-ray diffraction applied to the study of Cretaceous fish fossils from Araripe Basin, Northeast of Brazil. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1225-1229.	1.2	11
115	Spectroscopic studies of wood fossils from the Crato Formation, Cretaceous Period. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 115, 324-329.	2.0	13
116	Molecular flexibility and structural instabilities in crystalline l-methionine. <i>Biophysical Chemistry</i> , 2013, 180-181, 76-85.	1.5	13
117	High-pressure Raman scattering of $MgMoO_4$ . <i>Vibrational Spectroscopy</i> , 2013, 68, 34-39.	1.2	22
118	Temperature-dependent Raman spectroscopy studies of phase transformations in the $K_2WO_4$ and the $MgMoO_4$ crystals. <i>Vibrational Spectroscopy</i> , 2013, 65, 58-65.	1.2	17
119	Pressure-induced phase transitions in $\hat{I}^2$ - $BaTeMo_2O_9$ . <i>Journal of Alloys and Compounds</i> , 2013, 579, 236-242.	2.8	11
120	Thermal study of l-alanine, l-threonine, and taurine crystals related to hydrogen bonding. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 627-631.	2.0	13
121	FT-IR and FT-Raman spectroscopies and DFT calculations of 2,2-dimethyl-5-(4H-1,2,4-triazol-4-ylaminomethylene)-1,3-dioxane-4,6-dione monohydrate. <i>Journal of Molecular Structure</i> , 2013, 1038, 170-176.	1.8	4
122	FT-IR and Raman spectra and DFT calculations on bis(L-histidinato)nickel(II) monohydrate. <i>Journal of Molecular Structure</i> , 2013, 1054-1055, 143-149.	1.8	11
123	High pressure Raman spectra of d-threonine crystal. <i>Vibrational Spectroscopy</i> , 2013, 67, 1-5.	1.2	16
124	Pressure-induced crystal�amorphous transformation in $Y_2Mo_3O_{12}$ . <i>Vibrational Spectroscopy</i> , 2013, 68, 251-256.	1.2	20
125	High pressure Raman scattering of dl-leucine crystals. <i>Vibrational Spectroscopy</i> , 2013, 66, 119-122.	1.2	12
126	Vibrational and structural properties in the dihydrate sodium tungstate and in the dihydrate sodium molybdate crystals. <i>Journal of Molecular Structure</i> , 2013, 1033, 154-161.	1.8	11



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127	Temperature-dependent Raman scattering study on Cs <sub>4</sub> W <sub>11</sub> O <sub>35</sub> and Rb <sub>4</sub> W <sub>11</sub> O <sub>35</sub> systems. Journal of Solid State Chemistry, 2013, 199, 7-14.	1.4	7
128	Spectroscopic Analysis of a Theropod Dinosaur (Reptilia, Archosauria) from the Ipubi Formation, Araripe Basin, Northeastern Brazil. Journal of Spectroscopy, 2013, 2013, 1-7.	0.6	9
129	Pressure-induced phase transition on K <sub>2</sub> MoO <sub>4</sub> : A Raman scattering study and ab initio calculations. Journal of Solid State Chemistry, 2012, 196, 197-202.	1.4	9
130	Temperature-induced phase transition in methyl-dopa sesquihydrate revealed via X-ray diffraction, thermal analysis and Raman spectroscopy. Vibrational Spectroscopy, 2012, 62, 59-63.	1.2	2
131	High-pressure Raman scattering and anharmonicity study of multiferroic wolframite-type Mn <sub>0.97</sub> Fe <sub>0.03</sub> WO <sub>4</sub> . Journal of Physics Condensed Matter, 2012, 24, 345403.	0.7	13
132	Characterization of flavonoid 3-Methoxyquercetin performed by FT-IR and FT-Raman spectroscopies and DFT calculations. Journal of Molecular Structure, 2012, 1029, 22-27.	1.8	21
133	Vibrational Spectroscopy of Xanthoxylone Crystals and DFT Calculations. Brazilian Journal of Physics, 2012, 42, 180-185.	0.7	7
134	Vibrational spectra and DFT calculations of the vibrational modes of Schiff base C <sub>18</sub> H <sub>17</sub> N <sub>3</sub> O <sub>2</sub> . Journal of Molecular Structure, 2012, 1013, 126-133.	1.8	4
135	High-temperature Raman spectra of KDP:Ni crystal. Solid State Communications, 2012, 152, 1023-1026.	0.9	3
136	Pressure-induced structural phase transitions and amorphization in selected molybdates and tungstates. Progress in Materials Science, 2012, 57, 1335-1381.	16.0	106
137	Temperature-dependent Raman scattering study of K <sub>2</sub> MoO <sub>4</sub> . Vibrational Spectroscopy, 2012, 58, 87-94.	1.2	18
138	High pressure Raman spectra of $\beta$ -form of L-glutamic acid. Vibrational Spectroscopy, 2012, 58, 181-187.	1.2	24
139	Structure-property relations in crystalline L-leucine obtained from calorimetry, X-rays, neutron and Raman scattering. Physical Chemistry Chemical Physics, 2011, 13, 6576.	1.3	22
140	Vibrational spectra of (4E)-4-((E)-3-phenyl-allylideneamino)-1,2-dihydro-2,3-dimethyl-1-phenylpirazol-5-one. Journal of Molecular Structure, 2011, 1006, 589-595.	1.8	2
141	Pressure-induced phase transitions in multiferroic RbFe(MoO <sub>4</sub> ) <sub>2</sub> Raman scattering study. Journal of Solid State Chemistry, 2011, 184, 2812-2817.	1.4	21
142	High-pressure Raman spectra of L-histidine hydrochloride monohydrate crystal. Vibrational Spectroscopy, 2011, 57, 102-102.	1.2	8
143	Combination of Raman, Infrared, and X-Ray Energy-Dispersion Spectroscopies and X-Ray Diffraction to Study a Fossilization Process. Brazilian Journal of Physics, 2011, 41, 275-280.	0.7	10
144	Temperature dependent Raman scattering study of L-ascorbic acid. Vibrational Spectroscopy, 2011, 55, 101-106.	1.2	15

#	ARTICLE	IF	CITATIONS
145	Raman spectroscopy study of Na <sub>2</sub> MoO <sub>4</sub> ·2H <sub>2</sub> O and Na <sub>2</sub> MoO <sub>4</sub> under hydrostatic pressure. Journal of Raman Spectroscopy, 2010, 41, 576-581.	1.2	23
146	Raman spectroscopy of topiramate under high pressure conditions. Journal of Raman Spectroscopy, 2010, 41, 356-359.	1.2	2
147	Low-temperature Raman spectra of racemate DL-Alanine crystals. Journal of Raman Spectroscopy, 2010, 41, 808-813.	1.2	16
148	Temperature-dependent Raman scattering of KDP:Mn (0.9% weight of Mn) crystal. Journal of Raman Spectroscopy, 2010, 41, 1318-1322.	1.2	7
149	High-pressure Raman spectra of racemate dl-alanine crystals. Vibrational Spectroscopy, 2010, 54, 107-111.	1.2	21
150	Pressure-induced phase transitions in stearic acid C form. Vibrational Spectroscopy, 2010, 54, 118-122.	1.2	18
151	Comparative vibrational spectra of pilosine and epiisopilosine crystals. Brazilian Journal of Physics, 2010, 40, .	0.7	3
152	Polarized Raman spectra of L-arginine hydrochloride monohydrated single crystal. Brazilian Journal of Physics, 2010, 40, 288-294.	0.7	10
153	Lattice dynamics and pressure-induced phase transitions in Bi <sub>2</sub> W <sub>2</sub> O <sub>9</sub> : High-pressure Raman study. Physical Review B, 2010, 81, .	1.1	23
154	High-pressure Raman scattering study of ferroelectric $K_3\text{MnO}_7$ . Physical Review B, 2010, 82, .	1.1	2
155	Phonon properties, polymorphism, and amorphization of Dy <sub>2</sub> Mo <sub>4</sub> O <sub>15</sub> under high hydrostatic pressure. Physical Review B, 2010, 82, .	1.1	14
156	Pressure-Induced Phase Transitions in Crystalline Amino Acids. Raman Spectroscopy and X-Ray Diffraction. NATO Science for Peace and Security Series B: Physics and Biophysics, 2010, , 559-572.	0.2	3
157	Physicochemical and spectroscopical investigation of Pequi ( <i>Caryocar coriaceum</i> Wittm.) pulp oil. Grasas Y Aceites, 2010, 61, 191-196.	0.3	20
158	Vibrational spectra of pilocarpine hydrochloride crystals. Brazilian Journal of Physics, 2009, 39, .	0.7	5
159	Raman and Neutron Scattering Study of Partially Deuterated L-Alanine: Evidence of a Solid-Solid Phase Transition. ChemPhysChem, 2009, 10, 3337-3343.	1.0	11
160	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
161	High-pressure Raman spectra of L-isoleucine crystals. Solid State Communications, 2009, 149, 1553-1556.	0.9	24
162	Pressure-induced phase transformations in l-alanine crystals. Journal of Physics and Chemistry of Solids, 2008, 69, 1641-1645.	1.9	30

#	ARTICLE	IF	CITATIONS
163	Phonons in ferroelectric Bi <sub>2</sub> WO <sub>6</sub> : Raman and infrared spectra and lattice dynamics. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	73
164	Vibrational and thermal properties of crystalline topiramate. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 1607-1613.	0.6	10
165	Structural Isotopic Effects in the Smallest Chiral Amino Acid: Observation of a Structural Phase Transition in Fully Deuterated Alanine. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5034-5039.	1.2	43
166	Caracterizaçãoe espectroscãpica de peixe do perãodo cretãiceo (Bacia do Araripe). <i>Quimica Nova</i> , 2007, 30, 22-24.	0.3	8
167	High temperature phase transition in monohydrated L-asparagine crystal. <i>Solid State Communications</i> , 2007, 141, 29-32.	0.9	16
168	A comparative study of negative thermal expansion materials Sc <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> and Al <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> crystals. <i>Vibrational Spectroscopy</i> , 2007, 44, 69-77.	1.2	51
169	The behavior of NH <sub>3</sub> torsional vibration of l-alanine, l-threonine and taurine crystals under high pressure: A Raman spectroscopic study. <i>Vibrational Spectroscopy</i> , 2007, 45, 99-102.	1.2	43
170	Taninos hidrolisãveis em Bixa orellana L.. <i>Quimica Nova</i> , 2006, 29, 507-509.	0.3	5
171	Vibrational spectra of Î±-Ge(HPO <sub>4</sub> ) <sub>2</sub> ·H <sub>2</sub> O compound. <i>Vibrational Spectroscopy</i> , 2006, 40, 209-212.	1.2	9
172	Raman spectra ofL-isoleucine crystals. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 1296-1301.	1.2	40
173	High-temperature Raman spectroscopy of monohydratedL-asparagine:Cr <sup>3+</sup> . <i>Journal of Raman Spectroscopy</i> , 2006, 37, 1393-1397.	1.2	3
174	Raman spectra of deuteriated taurine single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 1525-1527.	2.0	4
175	Phonon calculation on olivine-like LiMPO <sub>4</sub> (M = Ni, Co, Fe) and Raman scattering of the iron-containing compound. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 213-220.	1.2	66
176	Raman scattering ofL-valine crystals. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 1076-1081.	1.2	67
177	High pressure effects on the structural and vibrational properties of antiferromagnetic KFe(MoO <sub>4</sub> ) <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , 2005, 17, 6285-6300.	0.7	25
178	Temperature studies ofKH <sub>2</sub> PO <sub>4</sub> :Mncrystals using x-ray diffraction and polarized Raman scattering. <i>Physical Review B</i> , 2005, 72, .	1.1	16
179	Structural and dielectric properties of Nd <sup>3+</sup> -doped Ba <sub>0.77</sub> Ca <sub>0.23</sub> TiO <sub>3</sub> ceramics. <i>Journal of Applied Physics</i> , 2005, 97, 104113.	1.1	33
180	High-pressure Raman study of Al <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> . <i>Journal of Solid State Chemistry</i> , 2004, 177, 2002-2006.	1.4	50

#	ARTICLE	IF	CITATIONS
181	Local impurity-phase generation in laser irradiated $\text{Li}_x\text{Co}_{0.9}\text{Ga}_{0.1}\text{O}_2$ . <i>Chemical Physics Letters</i> , 2004, 397, 520-526.	1.2	3
182	Two new low-temperature phase transitions in the $\text{Li}(\text{NH}_4)_{1-x}\text{Na}_x\text{SO}_4$ system. <i>Phase Transitions</i> , 2004, 77, 921-928.	0.6	0
183	Phase transition in an occupationally disordered sulfate system. <i>Solid State Communications</i> , 2003, 126, 339-342.	0.9	0
184	New crystals in the lithium sulfate family. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003, 59, i67-i70.	0.4	6
185	Brillouin scattering study of phase transitions in $\text{LiK}_{0.80}(\text{NH}_4)_{0.20}\text{SO}_4$ mixed crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2002, 63, 1951-1956.	1.9	3
186	Pressure Raman spectra of $\text{LiK}_{0.8}(\text{NH}_4)_{0.2}\text{SO}_4$ . <i>Journal of Raman Spectroscopy</i> , 2001, 32, 689-693.	1.2	1
187	High-pressure Raman study of taurine crystal. <i>Journal of Raman Spectroscopy</i> , 2001, 32, 27-32.	1.2	29
188	Raman study of morphotropic phase boundary in $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$ at low temperatures. <i>Physical Review B</i> , 2001, 63, .	1.1	73
189	Metastable ferroelectric phase in potassium dihydrogen phosphate induced by a static electric field. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 915-919.	1.2	3
190	Temperature-Dependent Raman Study of $\text{CaCu}(\text{HCOO})_4$ and $\text{Ca}_2\text{Cu}(\text{HCOO})_6$ Crystals. <i>Journal of Solid State Chemistry</i> , 2000, 154, 338-343.	1.4	7
191	High-pressure Raman study of L-alanine crystal. <i>Solid State Communications</i> , 2000, 116, 405-409.	0.9	89
192	Ionic conductivity and crystalline structure of $\text{Li}_2\text{CaHfF}_8$ crystals. <i>Solid State Ionics</i> , 2000, 136-137, 345-350.	1.3	1
193	A new phase in the $\text{LiRbSO}_4\text{-LiCsSO}_4$ system. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 7559-7568.	0.7	8
194	Raman scattering studies of monohydrated L-asparagine. <i>Brazilian Journal of Physics</i> , 1999, 29, 380-387.	0.7	49
195	Investigation of phase transitions in $\text{LiK}_{1-x}(\text{NH}_4)_x\text{SO}_4$ mixed crystal. <i>Solid State Communications</i> , 1999, 109, 507-512.	0.9	5
196	A Raman investigation of $\text{PbZr}_{0.94}\text{Ti}_{0.06}\text{O}_3$ ceramics under high-pressure. <i>Solid State Communications</i> , 1999, 112, 383-386.	0.9	15
197	Polarized Raman Spectra and Infrared Analysis of Vibrational Modes in L-Threonine Crystals. <i>Brazilian Journal of Physics</i> , 1998, 28, 19-24.	0.7	54
198	Pressure Raman scattering of CdTe quantum dots. <i>Physical Review B</i> , 1997, 55, 6743-6746.	1.1	37

#	ARTICLE	IF	CITATIONS
199	Pressure-induced phase transitions in monohydrated l-asparagine aminoacid crystals. Solid State Communications, 1997, 103, 655-658.	0.9	58
200	Pressure-induced phase transition in LiCsSO <sub>4</sub> . Physical Review B, 1995, 51, 593-596.	1.1	12
201	Sharp line emission of KZnF <sub>3</sub> :Cr <sup>3+</sup> . Physical Review B, 1995, 52, 177-180.	1.1	29
202	Pressure-induced level crossing in KZnF <sub>3</sub> :Cr <sup>3+</sup> . Physical Review B, 1994, 49, 9232-9235.	1.1	46
203	Structural phase transitions in RbLiSO <sub>4</sub> . Journal of Raman Spectroscopy, 1993, 24, 133-137.	1.2	9