

# Francisco De Sousa

## List of Publications by Year in descending order

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66  
papers

1,289  
citations

430874

18  
h-index

377865

34  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1670  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, thermal, electronic, vibrational, magnetic, and cytotoxic properties of chloro(glycinato-N,O)(1,10-phenanthroline-N,Nâ€²)-copper(II) trihydrate coordination complex. <i>Journal of Inorganic Biochemistry</i> , 2022, 226, 111658.	3.5	9
2	Phase changes of tris(glycinato)chromium(III) monohydrate crystal systematically studied by thermal analyses, XRPD, FTIR, and Raman combined with ab initio calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 271, 120883.	3.9	2
3	Vibrational spectroscopy and lattice dynamic calculation on the MnMoO <sub>4</sub> system. <i>Journal of Solid State Chemistry</i> , 2022, 311, 123105.	2.9	2
4	Polymorphism at hexadecanoic-acid crystals investigated through structural and vibrational studies. <i>Vibrational Spectroscopy</i> , 2022, , 103402.	2.2	2
5	Theoretical and experimental investigation of structural and vibrational properties of L-arginine-HCl Br1- monohydrate crystals. <i>Vibrational Spectroscopy</i> , 2021, 112, 103187.	2.2	6
6	Phase Transformations of Azithromycin Crystals Investigated by Thermal and Spectroscopic Analyses Combined with Ab Initio Calculations. <i>Crystal Growth and Design</i> , 2021, 21, 3602-3613.	3.0	3
7	Hydration-dependent band gap tunability of self-assembled phenylalanyl tryptophan nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 134, 114910.	2.7	3
8	Pressure-induced phase transition in Glycinium maleate crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 262, 120076.	3.9	5
9	A temperature-dependent Raman scattering and X-ray diffraction study of K <sub>2</sub> Mo <sub>2</sub> O <sub>7</sub> ·H <sub>2</sub> O and ab initio calculations of K <sub>2</sub> Mo <sub>2</sub> O <sub>7</sub> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 263, 120184.	3.9	5
10	Optical and morphological features of poly(vinyl carbazole)/ferrite composites for potential opto-electronic applications. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	4
11	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.	3.9	10
12	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.	3.0	12
13	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.	3.9	6
14	Selective catalytic reduction of NO <sub>x</sub> by CO (CO-SCR) over metal-supported nanoparticles dispersed on porous alumina. <i>Advanced Powder Technology</i> , 2020, 31, 464-476.	4.1	52
15	Doping charge transfer in Pt/CNT systems induced by laser power heating. <i>Chemical Physics</i> , 2020, 530, 110591.	1.9	5
16	Catalytic acetalization of glycerol to biofuel additives over NiO and Co <sub>3</sub> O <sub>4</sub> supported oxide catalysts: experimental results and theoretical calculations. <i>Molecular Catalysis</i> , 2020, 496, 111186.	2.0	3
17	Raman spectroscopy of captopril crystals under low-temperature conditions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 243, 118734.	3.9	3
18	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.	2.2	1

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19	Low-temperature and high-pressure Raman spectroscopy of 2-hydroxy-3,4,6-trimethoxyacetophenone isolated from the Croton anisodontus MÃ¼ll.Arg.. Vibrational Spectroscopy, 2020, 110, 103143.	2.2	2
20	Combined promoting effect of molybdenum on the bimetallic Al <sub>2</sub> O <sub>3</sub> -La <sub>2</sub> O <sub>3</sub> catalysts for NO <sub>x</sub> reduction by CO. Fuel, 2020, 275, 117872.	6.4	18
21	Effect of Fe (III) on L-asparagine monohydrate investigated under low- and high-temperature conditions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 241, 118643.	3.9	3
22	Chemical analysis and vibrational spectroscopy study of essential oils from Lippia sidoides and of its major constituent. Vibrational Spectroscopy, 2020, 110, 103111.	2.2	12
23	Growth, structural, vibrational, DFT and thermal studies of bis(L <sup>2</sup> -alanine) nickel(II) dihydrate crystals. Journal of Physics and Chemistry of Solids, 2020, 141, 109435.	4.0	2
24	Vibrational spectroscopy study and ab initio calculation on ZnMoO <sub>4</sub> system. Journal of Molecular Structure, 2020, 1206, 127776.	3.6	7
25	Copper(II):phenanthroline complexes with l-asparagine and l-methionine: Synthesis, crystal structure and in-vitro cytotoxic effects on prostate, breast and melanoma cancer cells. Polyhedron, 2020, 191, 114807.	2.2	9
26	Lattice dynamics calculations and high-pressure Raman spectra of the ZnMoO <sub>4</sub> . Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 239, 118501.	3.9	7
27	Understanding the effect of solvent polarity on the polymorphism of octadecanoic acid through spectroscopic techniques and DFT calculations. CrystEngComm, 2019, 21, 297-309.	2.6	24
28	New structural phases of [bis(L <sup>2</sup> -alaninato) diaqua] nickel(II) dihydrate crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 214, 294-301.	3.9	8
29	Phase transformation in the C form of myristic-acid crystals and DFT calculations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 208, 97-108.	3.9	7
30	Pressure dependent Raman studies in the K <sub>2</sub> Mo <sub>2</sub> O <sub>7</sub> ·H <sub>2</sub> O crystal. Vibrational Spectroscopy, 2018, 94, 89-94.	2.2	4
31	On the reasons for deactivation of titanate nanotubes with metals catalysts in the acetalization of glycerol with acetone. Chemical Engineering Journal, 2018, 334, 1927-1942.	12.7	31
32	CeFe-Based Bead Nanocomposites as Catalysts for Oxidation of Ethylbenzene Reaction. Catalysts, 2018, 8, 495.	3.5	9
33	Structural, vibrational and thermal studies on bis(L-glutaminato)copper(II). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 205, 603-613.	3.9	10
34	Fe-containing carbon obtained from ferrocene: Influence of the preparation procedure on the catalytic performance in FTS reaction. Chemical Engineering Journal, 2017, 317, 143-156.	12.7	12
35	Pressure induced transformations in sorbic acid. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 184, 327-334.	3.9	4
36	Temperature induced phase transformations on the Li <sub>2</sub> MoO <sub>4</sub> system studied by Raman spectroscopy. Journal of Molecular Structure, 2017, 1139, 119-124.	3.6	15

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37	Polarized Raman and Infrared Spectroscopy and ab Initio Calculation of Palmitic and Stearic Acids in the Bm and C Forms. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4830-4842.	2.5	19
38	Characterizations of nanostructured nickel aluminates as catalysts for conversion of glycerol: Influence of the preparation methods. <i>Advanced Powder Technology</i> , 2017, 28, 131-138.	4.1	10
39	Styrene Oxidation to Valuable Compounds over Nanosized FeCo-Based Catalysts: Effect of the Third Metal Addition. <i>Catalysts</i> , 2017, 7, 323.	3.5	11
40	Electrical and dielectric properties of water. <i>Scientia Plena</i> , 2017, 13, .	0.2	4
41	Mapas conceituais no ensino de Física como estratégia de avaliação. <i>Scientia Plena</i> , 2017, 13, .	0.2	1
42	Inferindo sobre aprendizagem via experimentos de Física elaborados com material de baixo custo. <i>Scientia Plena</i> , 2017, 13, .	0.2	0
43	Caracterização espectroscópica de cristais de Ácidos Láurico e mirístico. <i>Scientia Plena</i> , 2017, 13, .	0.2	0
44	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.	3.9	16
45	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.	3.9	17
46	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.	3.9	12
47	A study on the modification of mesoporous mixed oxides supports for dry reforming of methane by Pt or Ru. <i>Applied Catalysis A: General</i> , 2014, 473, 132-145.	4.3	46
48	Characterization and catalytic performances of copper and cobalt-exchanged hydroxyapatite in glycerol conversion for 1-hydroxyacetone production. <i>Applied Catalysis A: General</i> , 2014, 471, 39-49.	4.3	41
49	Metal oxides nanoparticles from complexes on SBA-15 for glycerol conversion. <i>Chemical Engineering Journal</i> , 2013, 228, 442-448.	12.7	23
50	Modified coconut shell fibers: A green and economical sorbent for the removal of anions from aqueous solutions. <i>Chemical Engineering Journal</i> , 2012, 185-186, 274-284.	12.7	91
51	Nanostructured Ni-containing spinel oxides for the dry reforming of methane: Effect of the presence of cobalt and nickel on the deactivation behaviour of catalysts. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 3201-3212.	7.1	117
52	High-temperature Raman spectra of KDP:Ni crystal. <i>Solid State Communications</i> , 2012, 152, 1023-1026.	1.9	3
53	Pressure-induced phase transitions in palmitic acid: C form. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 146-152.	2.5	17
54	Effect of sulfatation on the physicochemical and catalytic properties of molecular sieves. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2011, 102, 487-500.	1.7	9

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55	Catalytic conversion of glycerol to acrolein over modified molecular sieves: Activity and deactivation studies. <i>Chemical Engineering Journal</i> , 2011, 168, 765-774.	12.7	119
56	Temperature-induced phase transformations in $\text{Na}_2\text{WO}_4$ and $\text{Na}_2\text{MoO}_4$ crystals. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 799-802.	2.5	44
57	Temperature-dependent Raman scattering studies on $\text{Na}_2\text{Mo}_2\text{O}_7$ disodium dimolybdate. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1114-1119.	2.5	42
58	Activity of nanocasted oxides for gas-phase dehydration of glycerol. <i>Chemical Engineering Journal</i> , 2011, 168, 656-664.	12.7	30
59	Synthesis, characterization and catalytic performance of metal-containing mesoporous carbons for styrene production. <i>Applied Catalysis A: General</i> , 2011, 395, 53-63.	4.3	13
60	Temperature dependent Raman scattering study of l-ascorbic acid. <i>Vibrational Spectroscopy</i> , 2011, 55, 101-106.	2.2	15
61	Mesoporous $\text{MAl}_2\text{O}_4$ (M = Cu, Ni, Fe or Mg) spinels: Characterisation and application in the catalytic dehydrogenation of ethylbenzene in the presence of $\text{CO}_2$ . <i>Applied Catalysis A: General</i> , 2010, 382, 148-157.	4.3	74
62	Ethylbenzene to chemicals: Catalytic conversion of ethylbenzene into styrene over metal-containing MCM-41. <i>Journal of Molecular Catalysis A</i> , 2010, 315, 86-98.	4.8	53
63	Pressure-induced phase transitions in stearic acid C form. <i>Vibrational Spectroscopy</i> , 2010, 54, 118-122.	2.2	18
64	Dielectric Properties of Oleic Acid in Liquid Phase. <i>Journal of Bionanoscience</i> , 2009, 3, 139-142.	0.4	21
65	Studies of catalytic activity and coke deactivation of spinel oxides during ethylbenzene dehydrogenation. <i>Applied Catalysis A: General</i> , 2009, 359, 165-179.	4.3	47
66	Analysis of coke deposition and study of the structural features of $\text{MAl}_2\text{O}_4$ catalysts for the dry reforming of methane. <i>Catalysis Communications</i> , 2009, 11, 11-14.	3.3	59