

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
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67
all docs

67
docs citations

67
times ranked

1670
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Mesoporous MAI ₂ O ₄ (M = Cu, Ni, Fe or Mg) spinels: Characterisation and application in the catalytic dehydrogenation of ethylbenzene in the presence of CO ₂ . <i>Applied Catalysis A: General</i> , 2010, 382, 148-157.	4.3	74
5	Analysis of coke deposition and study of the structural features of MAI ₂ O ₄ catalysts for the dry reforming of methane. <i>Catalysis Communications</i> , 2009, 11, 11-14.	3.3	59
6	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
7	Selective catalytic reduction of NO _x by CO (CO-SCR) over metal-supported nanoparticles dispersed on porous alumina. <i>Advanced Powder Technology</i> , 2020, 31, 464-476.	4.1	52
8	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
9	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
10	Temperature-induced phase transformations in Na ₂ WO ₄ and Na ₂ MoO ₄ crystals. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 799-802.	2.5	44
11	Temperature-dependent Raman scattering studies on Na ₂ Mo ₂ O ₇ disodium dimolybdate. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1114-1119.	2.5	42
12	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
13	On the reasons for deactivation of titanate nanotubes with metals catalysts in the acetalization of glycerol with acetone. <i>Chemical Engineering Journal</i> , 2018, 334, 1927-1942.	12.7	31
14	Activity of nanocasted oxides for gas-phase dehydration of glycerol. <i>Chemical Engineering Journal</i> , 2011, 168, 656-664.	12.7	30
15	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.	2.6	24
16	Metal oxides nanoparticles from complexes on SBA-15 for glycerol conversion. <i>Chemical Engineering Journal</i> , 2013, 228, 442-448.	12.7	23
17	Dielectric Properties of Oleic Acid in Liquid Phase. <i>Journal of Bionanoscience</i> , 2009, 3, 139-142.	0.4	21
18	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

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19	Pressure-induced phase transitions in stearic acid C form. <i>Vibrational Spectroscopy</i> , 2010, 54, 118-122.	2.2	18
20	Combined promoting effect of molybdenum on the bimetallic Al ₂ O ₃ -La ₂ O ₃ catalysts for NO _x reduction by CO. <i>Fuel</i> , 2020, 275, 117872.	6.4	18
21	Pressure-induced phase transitions in palmitic acid: C form. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 146-152.	2.5	17
22	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
23	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
24	Temperature dependent Raman scattering study of l-ascorbic acid. <i>Vibrational Spectroscopy</i> , 2011, 55, 101-106.	2.2	15
25	Temperature induced phase transformations on the Li ₂ MoO ₄ system studied by Raman spectroscopy. <i>Journal of Molecular Structure</i> , 2017, 1139, 119-124.	3.6	15
26	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
27	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
28	Fe-containing carbon obtained from ferrocene: Influence of the preparation procedure on the catalytic performance in FTS reaction. <i>Chemical Engineering Journal</i> , 2017, 317, 143-156.	12.7	12
29	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
30	Chemical analysis and vibrational spectroscopy study of essential oils from <i>Lippia sidoides</i> and of its major constituent. <i>Vibrational Spectroscopy</i> , 2020, 110, 103111.	2.2	12
31	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
32	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
33	Structural, vibrational and thermal studies on bis(l-glutaminate)copper(II). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 205, 603-613.	3.9	10
34	Temperature dependence Raman spectroscopy and DFT calculations of Bi ₂ (MoO ₄) ₃ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117340.	3.9	10
35	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
36	CeFe-Based Bead Nanocomposites as Catalysts for Oxidation of Ethylbenzene Reaction. <i>Catalysts</i> , 2018, 8, 495.	3.5	9

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37	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. <i>Polyhedron</i> , 2020, 191, 114807.	2.2	9
38	Structural, thermal, electronic, vibrational, magnetic, and cytotoxic properties of chloro(glycinato-N,O)(1,10-phenanthroline-N,N ²)copper(II) trihydrate coordination complex. <i>Journal of Inorganic Biochemistry</i> , 2022, 226, 111658.	3.5	9
39	New structural phases of [bis(L-alaninato) diaqua] nickel(II) dihydrate crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 214, 294-301.	3.9	8
40	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.	3.9	7
41	Vibrational spectroscopy study and ab initio calculation on ZnMoO ₄ system. <i>Journal of Molecular Structure</i> , 2020, 1206, 127776.	3.6	7
42	Lattice dynamics calculations and high-pressure Raman spectra of the ZnMoO ₄ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 239, 118501.	3.9	7
43	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
44	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
45	Doping charge transfer in Pt/CNT systems induced by laser power heating. <i>Chemical Physics</i> , 2020, 530, 110591.	1.9	5
46	Pressure-induced phase transition in Glycinium maleate crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 262, 120076.	3.9	5
47	A temperature-dependent Raman scattering and X-ray diffraction study of K ₂ Mo ₂ O ₇ ·H ₂ O and ab initio calculations of K ₂ Mo ₂ O ₇ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 263, 120184.	3.9	5
48	Pressure induced transformations in sorbic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 184, 327-334.	3.9	4
49	Pressure dependent Raman studies in the K ₂ Mo ₂ O ₇ ·H ₂ O crystal. <i>Vibrational Spectroscopy</i> , 2018, 94, 89-94.	2.2	4
50	Electrical and dielectric properties of water. <i>Scientia Plena</i> , 2017, 13, .	0.2	4
51	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
52	High-temperature Raman spectra of KDP:Ni crystal. <i>Solid State Communications</i> , 2012, 152, 1023-1026.	1.9	3
53	Catalytic acetalization of glycerol to biofuel additives over NiO and Co ₃ O ₄ supported oxide catalysts: experimental results and theoretical calculations. <i>Molecular Catalysis</i> , 2020, 496, 111186.	2.0	3
54	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

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55	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.	3.9	3
56	Phase Transformations of Azithromycin Crystals Investigated by Thermal and Spectroscopic Analyses Combined with <i>Ab Initio</i> Calculations. <i>Crystal Growth and Design</i> , 2021, 21, 3602-3613.	3.0	3
57	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
58	Low-temperature and high-pressure Raman spectroscopy of 2-hydroxy-3,4,6-trimethoxyacetophenone isolated from the Croton anisodontus <i>M</i> l.Arg.. <i>Vibrational Spectroscopy</i> , 2020, 110, 103143.	2.2	2
59	Growth, structural, vibrational, DFT and thermal studies of bis(<i>l</i> -alanine) nickel(II) dihydrate crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 141, 109435.	4.0	2
60	Phase changes of tris(glycinato)chromium(III) monohydrate crystal systematically studied by thermal analyses, XRPD, FTIR, and Raman combined with <i>ab initio</i> calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 271, 120883.	3.9	2
61	Vibrational spectroscopy and lattice dynamic calculation on the MnMoO ₄ system. <i>Journal of Solid State Chemistry</i> , 2022, 311, 123105.	2.9	2
62	Polymorphism at hexadecanoic-acid crystals investigated through structural and vibrational studies. <i>Vibrational Spectroscopy</i> , 2022, , 103402.	2.2	2
63	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
64	Mapas conceituais no ensino de f�sica como estrat�gia de avalia�o. <i>Scientia Plena</i> , 2017, 13, .	0.2	1
65	Inferindo sobre aprendizagem via experimentos de f�sica elaborados com material de baixo custo. <i>Scientia Plena</i> , 2017, 13, .	0.2	0
66	Caracteriza�o espectrosc�pica de cristais de �cidos l�urico e mir�stico. <i>Scientia Plena</i> , 2017, 13, .	0.2	0