

Pedro D D Vaz

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91
papers

1,995
citations

26
h-index

41
g-index

97
ext. papers

2,212
ext. citations

4.2
avg, IF

4.73
L-index

#	Paper	IF	Citations
91	Preparation and physicochemical characterization of Ag nanoparticles biosynthesized by <i>Lippia citriodora</i> (Lemon Verbena). <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 81, 67-73	6	158
90	Loading and delivery of sertraline using inorganic micro and mesoporous materials. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007 , 66, 357-65	5.7	95
89	Inelastic neutron scattering study of reline: shedding light on the hydrogen bonding network of deep eutectic solvents. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 17998-18009	3.6	89
88	Engineering highly efficient Eu(III)-based tri-ureasil hybrids toward luminescent solar concentrators. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7339	13	77
87	Molybdenum π -Allyl Dicarboxyl Complexes as a New Class of Precursors for Highly Reactive Epoxidation Catalysts with tert-Butyl Hydroperoxide. <i>Organometallics</i> , 2007 , 26, 5548-5556	3.8	73
86	Inside PEF: Chain Conformation and Dynamics in Crystalline and Amorphous Domains. <i>Macromolecules</i> , 2018 , 51, 3515-3526	5.5	71
85	Layered Double Hydroxide Nanoclusters: Aqueous, Concentrated, Stable, and Catalytically Active Colloids toward Green Chemistry. <i>ACS Nano</i> , 2016 , 10, 5550-9	16.7	67
84	Heteropolynuclear gold complexes with metallophilic interactions: modulation of the luminescent properties. <i>Inorganic Chemistry</i> , 2010 , 49, 8255-69	5.1	56
83	C-H...O hydrogen bonds in liquid cyclohexanone revealed by the $\nu_{C=O}$ splitting and the ν_{OH} blue shift. <i>Journal of Raman Spectroscopy</i> , 2003 , 34, 863-867	2.3	47
82	Heptacoordinate tricarbonyl Mo(II) complexes as highly selective oxidation homogeneous and heterogeneous catalysts. <i>Journal of Catalysis</i> , 2008 , 256, 301-311	7.3	45
81	Highly selective and recyclable MoO ₃ nanoparticles in epoxidation catalysis. <i>Applied Catalysis A: General</i> , 2015 , 504, 344-350	5.1	40
80	Vanadyl cationic complexes as catalysts in olefin oxidation. <i>Dalton Transactions</i> , 2015 , 44, 5125-38	4.3	40
79	Organometallic Mo complex anchored to magnetic iron oxide nanoparticles as highly recyclable epoxidation catalyst. <i>Journal of Organometallic Chemistry</i> , 2014 , 760, 2-10	2.3	39
78	Bio-inspired Mo(II) complexes as active catalysts in homogeneous and heterogeneous olefin epoxidation. <i>Applied Catalysis A: General</i> , 2010 , 384, 84-93	5.1	39
77	Highly enantioselective olefin epoxidation controlled by helical confined environments. <i>Journal of Catalysis</i> , 2014 , 309, 21-32	7.3	38
76	Hydrogen-bond dynamics of C-H...O interactions: the chloroform...acetone case. <i>Chemistry - A European Journal</i> , 2010 , 16, 9010-7	4.8	34
75	Photocatalytic degradation of rhodamine B using Mo heterogeneous catalysts under aerobic conditions. <i>Applied Catalysis B: Environmental</i> , 2012 , 113-114, 180-191	21.8	33

74	Mo(II) complexes: a new family of cytotoxic agents?. <i>Journal of Inorganic Biochemistry</i> , 2010 , 104, 1171-74.2	3.0	30
73	Pyridine Carboxylate Complexes of Mo(II) as Active Catalysts in Homogeneous and Heterogeneous Polymerization. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 2917-2925	2.3	30
72	Hepta-coordinate halocarbonyl molybdenum(II) and tungsten(II) complexes as heterogeneous polymerization catalysts. <i>Journal of Molecular Catalysis A</i> , 2006 , 256, 90-98		29
71	Towards the understanding of the spectroscopic behaviour of the C-H...O hydrogen bonds: the effect of solvent polarity. <i>Chemical Physics Letters</i> , 2004 , 390, 358-361	2.5	29
70	Immobilisation of rhodium acetonitrile complexes in ordered mesoporous silica. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 3098-3105	3.6	29
69	MoO ₂ nanoparticles as highly efficient olefin epoxidation catalysts. <i>Applied Catalysis A: General</i> , 2015 , 504, 399-407	5.1	28
68	C-H...O Hydrogen Bonds in Small Ring Carbonyl Compounds: Vibrational Spectroscopy and Ab initio Calculations. <i>Structural Chemistry</i> , 2005 , 16, 287-293	1.8	28
67	An Oligosilsesquioxane Cage Functionalized with Molybdenum(II) Organometallic Fragments. <i>Organometallics</i> , 2012 , 31, 4495-4503	3.8	27
66	Performance evaluation of mesoporous host materials in olefin epoxidation using Mo(II) and Mo(VI) active species: Inorganic vs. hybrid matrix. <i>Applied Catalysis A: General</i> , 2011 , 408, 105-116	5.1	26
65	Bioactive Pseudo-C-nucleosides Containing Thiazole, Thiazolidinone, and Tetrazole Rings. <i>Journal of Carbohydrate Chemistry</i> , 2005 , 24, 275-296	1.7	25
64	Strong Experimental Evidence of C-H...O Hydrogen Bonds in Cyclopentanone: The Splitting of the (C=O) Mode Revisited. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 6301-6305	2.8	24
63	Asymmetric synthesis of trans-4,5-dioxygenated cyclopentenone derivatives by organocatalyzed rearrangement of pyranones and enzymatic dynamic kinetic resolution. <i>Tetrahedron</i> , 2011 , 67, 2779-2787	2.4	23
62	Pseudopolymorphism in Nickel(II) Complexes with 6-Methylpicolinate. Synthesis, Structural, Spectroscopic, Thermal, and Density Functional Theory Studies. <i>Crystal Growth and Design</i> , 2008 , 8, 3465-3473	3.5	23
61	Activity of Mo(II) allylic complexes supported in MCM-41 as oxidation catalysts precursors. <i>Microporous and Mesoporous Materials</i> , 2009 , 117, 670-677	5.3	22
60	Synthesis and catalytic properties of manganese(II) and oxovanadium(IV) complexes anchored to mesoporous MCM-41. <i>Microporous and Mesoporous Materials</i> , 2008 , 112, 14-25	5.3	21
59	The role of 4,7-disubstituted phenanthroline ligands in energy transfer of europium(III) complexes: a DFT study. <i>New Journal of Chemistry</i> , 2011 , 35, 2435	3.6	20
58	Electron-Phonon Coupling in Luminescent Europium-Doped Hydride Perovskites Studied by Luminescence Spectroscopy, Inelastic Neutron Scattering, and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10501-10509	3.8	18
57	Clays in Organic Synthesis [Preparation and Catalytic Applications. <i>Current Organic Synthesis</i> , 2012 , 9, 670-694	1.9	18

56	C-H...O hydrogen bonding in 4-phenyl-benzaldehyde: a comprehensive crystallographic, spectroscopic and computational study. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 3027-34	3.6	18
55	Syntheses, X-ray structures, photochemistry, redox properties, and DFT calculations of interconvertible fac- and mer-[Mn(SPS)(CO) ₃] isomers containing a flexible SPS-based pincer ligand. <i>Inorganic Chemistry</i> , 2005 , 44, 9213-24	5.1	18
54	Marine sponge melanin: a new source of an old biopolymer. <i>Structural Chemistry</i> , 2012 , 23, 115-122	1.8	17
53	Electrochemical studies and potential anticancer activity in ferrocene derivatives. <i>Journal of Coordination Chemistry</i> , 2017 , 70, 314-327	1.6	17
52	Vibrational study on the local structure of post-synthesis and hybrid mesoporous materials: are there fundamental distinctions?. <i>Chemistry - A European Journal</i> , 2007 , 13, 7874-82	4.8	17
51	Exploring bulk and colloidal Mg/Al hydrotalciteAu nanoparticles hybrid materials in aerobic olefin epoxidation. <i>Journal of Catalysis</i> , 2018 , 358, 187-198	7.3	16
50	Hydrogen Bond Dynamics of Cellulose through Inelastic Neutron Scattering Spectroscopy. <i>Biomacromolecules</i> , 2018 , 19, 1305-1313	6.9	16
49	Synthesis of Purine Nucleosides from D-Glucuronic Acid Derivatives and Evaluation of Their Cholinesterase-Inhibitory Activities. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 2770-2779	3.2	16
48	A green-emitting β -substituted β -diketonate Tb ³⁺ phosphor for ultraviolet LED-based solid-state lighting. <i>Journal of Coordination Chemistry</i> , 2014 , 67, 4076-4089	1.6	16
47	Advantageous delivery of nifedipine from inorganic materials showing increased solubility and biocompatibility. <i>Microporous and Mesoporous Materials</i> , 2014 , 183, 192-200	5.3	16
46	Modelling the luminescence of extended solids: an example of a highly luminescent MCM-41 impregnated with a Eu ³⁺ β -diketonate complex. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9701-9711	7.1	16
45	Synthesis of tetrahydronaphthalene lignan esters by intramolecular cyclization of ethyl p-azidophenyl-2-phenylalkanoates and evaluation of the growth inhibition of human tumor cell lines. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 3175-87	8.3	16
44	Asymmetric Monomer, Amorphous Polymer? Structure-Property Relationships in 2,4-FDCA and 2,4-PEF. <i>Macromolecules</i> , 2020 , 53, 1380-1387	5.5	14
43	Disappearing and Concomitant Polymorphism of Nickel(II) Complexes with 6-Hydroxypicolinic Acid. Structural and Density Functional Theory Studies. <i>Crystal Growth and Design</i> , 2010 , 10, 3685-3693	3.5	14
42	Mixed-Ligand Rhenium Tricarbonyl Complexes Anchored on a (β -H,S) Trihydro(mercaptoimidazolyl)borate: A Missing Binding Motif for Soft Scorpionates. <i>Organometallics</i> , 2008 , 27, 1334-1337	3.8	14
41	Synthesis and characterisation of hybrid mesoporous materials with the 1,4-diazobutadiene ligand. <i>Microporous and Mesoporous Materials</i> , 2006 , 95, 104-111	5.3	13
40	Pyridine Carboxylate Complexes of Mo(II) as Active Catalysts in Homogeneous and Heterogeneous Olefin Epoxidation. <i>Current Inorganic Chemistry</i> , 2011 , 1, 146-155		13
39	Poly(4-styrene sulfonic acid)/bacterial cellulose membranes: Electrochemical performance in a single-chamber microbial fuel cell. <i>Bioresource Technology Reports</i> , 2020 , 9, 100376	4.1	13

38	The Versatility of Immobilized Mo Complexes in Organic Transformations - Epoxidation and Metathesis Reactions. <i>Current Organic Chemistry</i> , 2012 , 16, 89-114	1.7	12
37	Catalytic Application of Fe-doped MoO ₂ Tremella-Like Nanosheets. <i>Topics in Catalysis</i> , 2016 , 59, 1123-1133	1.3	11
36	Helical Channel Mesoporous Materials with Embedded Magnetic Iron Nanoparticles: Chiral Recognition and Implications in Asymmetric Olefin Epoxidation. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 3127-3140	5.6	11
35	Hybrid mesoporous MCM-41 type material containing 1,4-diazobutadiene chelate ligand in the walls. <i>Progress in Solid State Chemistry</i> , 2005 , 33, 163-170	8	11
34	The Role of CH ₂ ...O Interactions in the Solid and Liquid-Phase Structures of Methyltrioxo Rhenium. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 1836-1840	2.3	11
33	Synthesis of Co/Al layered double hydroxide nanoclusters as reduction nanocatalyst in aqueous media. <i>Journal of Asian Ceramic Societies</i> , 2017 , 5, 466-471	2.4	10
32	Wittig Reaction: Domino Olefination and Stereoselectivity DFT Study. Synthesis of the MiharamycinTBicyclic Sugar Moiety. <i>Organic Letters</i> , 2015 , 17, 5622-5	6.2	10
31	Catalytic performance of bulk and colloidal Co/Al layered double hydroxide with Au nanoparticles in aerobic olefin oxidation. <i>Applied Catalysis A: General</i> , 2019 , 584, 117155	5.1	10
30	Crystal structure landscapes from combined vibrational spectroscopy and ab initio calculations: 4-(Dimethylamino)benzaldehyde. <i>Computational and Theoretical Chemistry</i> , 2010 , 946, 65-69		10
29	Effect of Food Preparations on In Vitro Bioactivities and Chemical Components of. <i>Foods</i> , 2020 , 9,	4.9	10
28	Looking inside the pores of a MCM-41 based Mo heterogeneous styrene oxidation catalyst: an inelastic neutron scattering study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 17272-80	3.6	10
27	Structural preferences and isomerism in nickel(II) and copper(II) complexes with 3-hydroxypicolinic acid. <i>Polyhedron</i> , 2012 , 39, 66-75	2.7	9
26	Tuning the Surface of Mesoporous Materials Towards Hydrophobicity-Effects in Olefin Epoxidation. <i>Current Inorganic Chemistry</i> , 2011 , 1, 156-165		8
25	Understanding the vibrational spectra of crystalline isoniazid: Raman, IR and INS spectroscopy and solid-state DFT study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 204, 452-459	4.4	8
24	New heterogeneous catalysts with Mo(II) intercalated in layered double hydroxides. <i>Inorganica Chimica Acta</i> , 2017 , 455, 483-488	2.7	7
23	A new role for layered double hydroxides hybrid materials: uptake and delivery of small molecules into the gas phase. <i>New Journal of Chemistry</i> , 2010 , 34, 541	3.6	7
22	Understanding the Structure and Dynamics of Nanocellulose-Based Composites with Neutral and ionic Poly(methacrylate) Derivatives using Inelastic Neutron Scattering and DFT Calculations. <i>Molecules</i> , 2020 , 25,	4.8	6
21	Zinc biomimetic catalysts for epoxidation of olefins with H ₂ O ₂ . <i>Applied Clay Science</i> , 2020 , 190, 105562	5.2	6

20	Porous materials as delivery and protective agents for Vitamin A. <i>RSC Advances</i> , 2016 , 6, 66495-66504	3.7	6
19	Synthesis and catalytic activity of Mo(II) complexes of β -diimines intercalated in layered double hydroxides. <i>Inorganica Chimica Acta</i> , 2019 , 486, 274-282	2.7	6
18	Association of aescin with β and γ -cyclodextrins studied by DFT calculations and spectroscopic methods. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 348-357	3	5
17	Intermolecular C-H \cdots O interactions in cyclopentanone: An inelastic neutron scattering study. <i>Chemical Physics</i> , 2013 , 427, 117-123	2.3	5
16	Can Semi-empirical Calculations Help Solve Mass Spectrometry Problems? Protonation Sites and Proton Affinities of Amino Acids. <i>ChemPlusChem</i> , 2013 , 78, 1149-1156	2.8	5
15	Near Infrared Reflectance Spectroscopy Coupled to Chemometrics as a Cost-Effective, Rapid, and Non-Destructive Tool for Fish Fraud Control: Monitoring Source, Condition, and Nutritional Value of Five Common Whitefish Species. <i>Journal of AOAC INTERNATIONAL</i> , 2021 , 104, 53-60	1.7	5
14	On the way to understand antioxidants: chromanol and dimethoxyphenols gas-phase acidities. <i>Journal of Mass Spectrometry</i> , 2011 , 46, 640-8	2.2	4
13	Asymmetric binuclear Ni(II) and Cu(II) Schiff base metallopolymer. <i>RSC Advances</i> , 2015 , 5, 39495-39504	3.7	3
12	Exploring C-H \cdots O hydrogen bonds in dihydrocoumarin from combined vibrational spectroscopy and DFT calculations. <i>Chemical Physics Letters</i> , 2012 , 551, 86-91	2.5	3
11	Probing the relevance of MoO nanoparticles synthesis on their catalytic activity by inelastic neutron scattering. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 896-904	3.6	3
10	Vibrational Dynamics of Crystalline 4-Phenylbenzaldehyde from INS Spectra and Periodic DFT Calculations. <i>Molecules</i> , 2020 , 25,	4.8	2
9	Colourless aegirine in metamorphic rocks from Bayan Obo (Inner Mongolia): lack of charge transfer transitions as possible explanation. <i>European Journal of Mineralogy</i> , 2014 , 25, 987-993	2.2	2
8	Melanin: Production from Cheese Bacteria, Chemical Characterization, and Biological Activities. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	2
7	Vibrational dynamics of 4-fluorobenzaldehyde from periodic DFT calculations. <i>Chemical Physics Letters: X</i> , 2019 , 2, 100006	2	2
6	Validation of the Steinrath Index Predictions for the Degree of Soil Aggressiveness Toward Copper Corrosion in Soils Contaminated with Chlorides. <i>Corrosion</i> , 2015 , 71, 1267-1277	1.8	1
5	Selective and Efficient Olefin Epoxidation by Robust Magnetic Mo Nanocatalysts. <i>Catalysts</i> , 2021 , 11, 380	4	1
4	Solventless Olefin Epoxidation Using a Mo-Loaded Sisal Derived Acid-Char Catalyst. <i>ChemistrySelect</i> , 2018 , 3, 10357-10363	1.8	1
3	New Insights on the Vibrational Dynamics of 2-Methoxy-, 4-Methoxy- and 4-Ethoxy-Benzaldehyde from INS Spectra and Periodic DFT Calculations. <i>Materials</i> , 2021 , 14,	3.5	1

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| 2 | Nitroarene and dye reduction with 2:1 Co/Al layered double hydroxide catalysts – Is gold still necessary?. <i>Inorganica Chimica Acta</i> , 2021 , 521, 120336 | 2.7 | ○ |
| 1 | Substrate-Solvent Crosstalk Effects on Reaction Kinetics and Product Selectivity in Olefin Oxidation Catalysis. <i>Chemistry</i> , 2021 , 3, 753-764 | 2.1 | ○ |