AntÃ³nio Fonseca

List of Publications by Year
in descending order

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95 papers	2,764 citations	159358 30 h-index	197535 49 g-index
95 all docs	95 docs citations	95 times ranked	3026 citing authors

#	Article	IF	Citations
1	Antimicrobial activity of faujasite zeolites doped with silver. Microporous and Mesoporous Materials, 2012, 160, 126-132.	2.2	146
2	Synthesis and characterization of novel diazenes bearing pyrrole, thiophene and thiazole heterocycles as efficient photochromic and nonlinear optical (NLO) materials. Dyes and Pigments, 2011, 91, 62-73.	2.0	127
3	Zeolite Structures Loading with an Anticancer Compound As Drug Delivery Systems. Journal of Physical Chemistry C, 2012, 116, 25642-25650.	1.5	120
4	Thienylpyrrole azo dyes: synthesis, solvatochromic and electrochemical properties. Tetrahedron, 2005, 61, 8249-8256.	1.0	104
5	Synthesis and Characterization of Dicyanovinyl-Substituted Thienylpyrroles as New Nonlinear Optical Chromophores. Organic Letters, 2006, 8, 3681-3684.	2.4	99
6	Synthesis of donorâ€“acceptor substituted oligothiophenes by Stille coupling. Tetrahedron, 2004, 60, 4071-4078.	1.0	98
7	Determination of the parameters affecting electrospun chitosan fiber size distribution and morphology. Carbohydrate Polymers, 2012, 87, 1295-1301.	5.1	90
8	Potentiation of 5-fluorouracil encapsulated in zeolites as drug delivery systems for in vitro models of colorectal carcinoma. Colloids and Surfaces B: Biointerfaces, 2013, 112, 237-244.	2.5	90
9	Pushâ€“pull bithiophene azo-chromophores bearing thiazole and benzothiazole acceptor moieties: Synthesis and evaluation of their redox and nonlinear optical properties. Dyes and Pigments, 2011, 91, 454-465.	2.0	85
10	Structureâˆ’Property Relationships in Pushâˆ’Pull Amino/Cyanovinyl End-Capped Oligothiophenes:Â Quantum Chemical and Experimental Studies. Journal of Organic Chemistry, 2006, 71, 7509-7520.	1.7	81
11	Design, synthesis, and characterization of the electrochemical, nonlinear optical properties, and theoretical studies of novel thienylpyrrole azo dyes bearing benzothiazole acceptor groups. Tetrahedron, 2011, 67, 5189-5198.	1.0	75
12	Photocatalytic degradation of Rhodamine B dye by cotton textile coated with SiO2-TiO2 and SiO2-TiO2-HY composites. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 346, 60-69.	2.0	74
13	Catalytic behavior of 1-(2-pyridylazo)-2-naphthol transition metal complexes encapsulated in Y zeolite. Journal of Catalysis, 2011, 278, 102-110.	3.1	60
14	Photochromic properties of thienylpyrrole azo dyes in solution. Tetrahedron Letters, 2006, 47, 3711-3714.	0.7	59
15	Study of silver species stabilized in different microporous zeolites. Microporous and Mesoporous Materials, 2013, 181, 83-87.	2.2	59
16	On carboxylate as a leaving group at the active site of Mo nitrogenase: electrochemical reactions of some MO and W carboxylates, formation of mono-, di- and tri-hydrides and the detection of an MoH2(N2) intermediate. Polyhedron, 1994, 13, 3341-3348.	1.0	48
17	Highly efficient reduction of bromate to bromide over mono and bimetallic ZSM5 catalysts. Green Chemistry, 2015, 17, 4247-4254.	4.6	44
18	Synthesis of tricyanovinyl-substituted thienylpyrroles and characterization of the solvatochromic, electrochemical and non-linear optical properties. Tetrahedron, 2005, 61, 11991-11998.	1.0	43

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19	Photoswitching in azo dyes bearing thienylpyrrole and benzothiazole heterocyclic systems. Dyes and Pigments, 2012, 92, 745-748.	2.0	43
20	Mono and bimetallic NaY catalysts with high performance in nitrate reduction in water. Chemical Engineering Journal, 2015, 281, 411-417.	6.6	43
21	Microbial growth inhibition caused by Zn/Ag-Y zeolite materials with different amounts of silver. Colloids and Surfaces B: Biointerfaces, 2016, 142, 141-147.	2.5	43
22	Design, synthesis and evaluation of redox, second order nonlinear optical properties and theoretical DFT studies of novel bithiophene azo dyes functionalized with thiadiazole acceptor groups. Dyes and Pigments, 2012, 95, 392-399.	2.0	42
23	Fast thermal cisâ€“trans isomerization of heterocyclic azo dyes in PMMA polymers. Optical Materials, 2013, 35, 1167-1172.	1.7	40
24	Synthesis and characterization of novel, thermally stable 2-aryl-5-dicyanovinylthiophenes and 5-aryl-5â€²-dicyanovinyl-2,2â€²-bithiophenes as potentially promising non-linear optical materials. Dyes and Pigments, 2010, 86, 217-226.	2.0	39
25	Synthesis and characterization of novel second-order NLO-chromophores bearing pyrrole as an electron donor group. Tetrahedron, 2012, 68, 8147-8155.	1.0	35
26	Electrochemistry of molybdenum imides: cleavage of molybdenumâ€“nitrogen triple bonds to release ammonia or aminesâ€Šâ€. Journal of the Chemical Society Dalton Transactions, 1997, , 4807-4816.	1.1	34
27	Encapsulation of Î±-cyano-4-hydroxycinnamic acid into a NaY zeolite. Journal of Materials Science, 2011, 46, 7511-7516.	1.7	34
28	Photocatalytic performance of N-doped TiO2nano-SiO2-HY nanocomposites immobilized over cotton fabrics. Journal of Materials Research and Technology, 2019, 8, 1933-1943.	2.6	34
29	Y zeolite-supported niobium pentoxide catalysts for the glycerol acetalization reaction. Microporous and Mesoporous Materials, 2018, 271, 243-251.	2.2	33
30	Synthesis of formyl-thienylpyrroles: versatile building blocks for NLO materials. Tetrahedron, 2006, 62, 3493-3501.	1.0	32
31	Electrochemical oxidation of aniline at mono and bimetallic electrocatalysts supported on carbon nanotubes. Chemical Engineering Journal, 2015, 260, 309-315.	6.6	32
32	Synthesis and immobilization of molybdenum complexes in a pillared layered clay. Microporous and Mesoporous Materials, 2004, 72, 111-118.	2.2	30
33	Immobilization of chromium complexes in zeolite Y obtained from biosorbents: Synthesis, characterization and catalytic behaviour. Applied Catalysis B: Environmental, 2010, 94, 1-7.	10.8	30
34	In vitro and in vivo studies of temozolomide loading in zeolite structures as drug delivery systems for glioblastoma. RSC Advances, 2015, 5, 28219-28227.	1.7	29
35	Immobilization of Fe(III) complexes of pyridazine derivatives prepared from biosorbents supported on zeolites. Microporous and Mesoporous Materials, 2008, 109, 163-171.	2.2	28
36	Enhancement of the Dielectric Constant and Thermal Properties of Î±-Poly(vinylidene fluoride)/Zeolite Nanocomposites. Journal of Physical Chemistry C, 2010, 114, 14446-14452.	1.5	28

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37	Enhancement of the photochromic switching speed of bithiophene azo dyes. Tetrahedron Letters, 2012, 53, 4502-4506.	0.7	27
38	Highly efficient heterogeneous catalysts for phenol oxidation: Binuclear pyrrolyl-azine metal complexes encapsulated in NaY zeolite. Microporous and Mesoporous Materials, 2016, 227, 272-280.	2.2	27
39	Bromate reduction in water promoted by metal catalysts prepared over faujasite zeolite. Chemical Engineering Journal, 2016, 291, 199-205.	6.6	27
40	Manganese complexes with triazenido ligands encapsulated in NaY zeolite as heterogeneous catalysts. Inorganica Chimica Acta, 2013, 394, 591-597.	1.2	25
41	Redox properties of (1-(2-pyridylazo)-2-naphthol)copper(II) encapsulated in Y Zeolite. Microporous and Mesoporous Materials, 2009, 117, 297-303.	2.2	23
42	Hostâ€“guest chemistry of the (N,Nâ€²-diarylacetamidine)rhodium(iii) complex in zeolite Y. Physical Chemistry Chemical Physics, 2009, 11, 6308.	1.3	23
43	Preparation and assessment of antimicrobial properties of bimetallic materials based on NaY zeolite. RSC Advances, 2015, 5, 37188-37195.	1.7	23
44	Encapsulation of manganese(III) complex in NaY nanoporosity for heterogeneous catalysis. Applied Organometallic Chemistry, 2012, 26, 44-49.	1.7	22
45	Comparison of different silica microporous structures as drug delivery systems for in vitro models of solid tumors. RSC Advances, 2017, 7, 13104-13111.	1.7	22
46	Copper(II)â€“Purine Complexes Encapsulated in NaY Zeolite. European Journal of Inorganic Chemistry, 2007, 2007, 1682-1689.	1.0	20
47	Effect of Zeolite Content in the Electrical, Mechanical and Thermal Degradation Response of Poly(vinylidene fluoride)/NaY Zeolite Composites. Journal of Nanoscience and Nanotechnology, 2012, 12, 6804-6810.	0.9	19
48	Surface functionalization of zeolite-based drug delivery systems enhances their antitumoral activity in vivo. Materials Science and Engineering C, 2021, 120, 111721.	3.8	19
49	Electrocatalytic oxidation of oxalic and oxamic acids in aqueous media at carbon nanotube modified electrodes. Electrochimica Acta, 2012, 60, 278-286.	2.6	17
50	Fe(III)-exchanged zeolites as efficient electrocatalysts for Fenton-like oxidation of dyes in aqueous phase. Journal of Environmental Chemical Engineering, 2022, 10, 107891.	3.3	17
51	Optical Properties of Nanostructures Obtained by Encapsulation of Cation Chromophores in Y Zeolite. Journal of Physical Chemistry C, 2010, 114, 10719-10724.	1.5	16
52	Micro- and Mesoporous Structures as Drug Delivery Carriers for Salicylic Acid. Journal of Physical Chemistry C, 2015, 119, 3589-3595.	1.5	16
53	Synthesis, characterization and in vitro validation of a magnetic zeolite nanocomposite with T₂-MRI properties towards theranostic applications. Journal of Materials Chemistry B, 2019, 7, 3351-3361.	2.9	15
54	Electrochemical oxidation of amoxicillin on carbon nanotubes and carbon nanotube supported metal modified electrodes. Catalysis Today, 2020, 357, 322-331.	2.2	15

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55	Host(beta zeolite)â€“guest (copper(ii)â€“methyladenine complex) nanomaterials: synthesis and characterization. New Journal of Chemistry, 2008, 32, 2263.	1.4	14
56	Stability of nanocomposites of poly(Îµ-caprolactone) with tungsten trioxide. Journal of Polymer Research, 2011, 18, 1743-1749.	1.2	14
57	Copper(II)â€“imidaâ€salen Complexes Encapsulated into NaY Zeolite for Oxidations Reactions. European Journal of Inorganic Chemistry, 2013, 2013, 5408-5417.	1.0	14
58	Modification of microfluidic paper-based devices with dye nanomaterials obtained by encapsulation of compounds in Y and ZSM5 zeolites. Sensors and Actuators B: Chemical, 2018, 261, 66-74.	4.0	13
59	Synthesis and Electrochemical and Spectroscopic Properties of Molybdenum Complexes Bearing 5-Alkoxythiophene or -bithiophene Groups. European Journal of Inorganic Chemistry, 2005, 2005, 4361-4365.	1.0	12
60	The electrochemical mineralization of oxalic and oxamic acids using modified electrodes based on carbon nanotubes. Chemical Engineering Journal, 2013, 228, 374-380.	6.6	12
61	Ligand-centred chemistry of molybdenum organoimides. Formation of Câ€“C bonds via generation of nitrogen ylides, stereospecific conversion of an allylimide into alkylvinyl-imides, liberation of cyanoformate or amino acid esters. Journal of the Chemical Society Dalton Transactions, 1995, , 1973-1984.	1.1	11
62	Oxidation of Volatile Organic Compounds by Highly Efficient Metal Zeolite Catalysts. ChemCatChem, 2018, 10, 3754-3760.	1.8	11
63	Electrochemical and Catalytic Studies of a Manganese(III)Complex with a Tetradentate Schiffâ€Base Ligand Encapsulated in NaY Zeolite. European Journal of Inorganic Chemistry, 2013, 2013, 2768-2776.	1.0	10
64	Internalization studies on zeolite nanoparticles using human cells. Journal of Materials Chemistry B, 2018, 6, 469-476.	2.9	10
65	Metal Ionâ€“Zeolite Materials against Resistant Bacteria, MRSA. Industrial & Engineering Chemistry Research, 2021, 60, 12883-12892.	1.8	9
66	Electrochemical and Spectroscopic Studies of Pyridazine Derivatives. Portugaliae Electrochimica Acta, 2004, 22, 11-18.	0.4	9
67	Study of the spectroscopic properties and first hyperpolarizabilities of disperse azo dyes derived from 2-amino-5-nitrothiazole. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 199, 23-33.	2.0	8
68	Molybdenum Complexes Bearing (Bi)thienyl- or Arylthienyl-Substituted Ï€-Conjugated Spacers: Synthesis, Electrochemical, Spectroscopic and Nonlinear Optical Properties. European Journal of Inorganic Chemistry, 2010, 2010, 2998-3004.	1.0	8
69	Norbornene Oxidation by Chiral Complexes Encapsulated in NaY Zeolite. Journal of Physical Chemistry C, 2014, 118, 19042-19050.	1.5	8
70	Fenton-Type Bimetallic Catalysts for Degradation of Dyes in Aqueous Solutions. Catalysts, 2021, 11, 32.	1.6	8
71	Study of the Electroreactivity of Amoxicillin on Carbon Nanotubeâ€Supported Metal Electrodes. ChemCatChem, 2018, 10, 4900-4909.	1.8	7
72	Encapsulation and characterisation of cationic benzo[a]phenoxazines in zeolite HY. New Journal of Chemistry, 2019, 43, 15785-15792.	1.4	7

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73	Electrochemical oxidation of diclofenac on CNT and M/CNT modified electrodes. New Journal of Chemistry, 2021, 45, 12622-12633.	1.4	7
74	Immobilization of Mo(IV) complex in hybrid matrix obtained via solâ€“gel technique. Journal of Alloys and Compounds, 2003, 360, 272-278.	2.8	6
75	Organicâ€“inorganic hybrid matrix doped with alkenyldiazenido complexes of molybdenum. Journal of Alloys and Compounds, 2008, 454, 72-77.	2.8	6
76	Nanocomposites of poly(Îµ-caprolactone) doped with titanium species. Journal of Materials Science, 2013, 48, 3578-3585.	1.7	6
77	Oxidation of cyclohexanol and cyclohexene with triazenido complexes of chromium immobilized in biosorption FAU supports. Chemical Engineering Journal, 2014, 247, 134-141.	6.6	6
78	The Leadâ€“Lead Oxide Secondary Cell as a Teaching Resource. Journal of Chemical Education, 2009, 86, 357.	1.1	5
79	Development of iridium porphyrin arrays by axial coordination through N-bidentate ligand: Synthesis and evaluation of the optical, electrochemical and thermal properties. Polyhedron, 2018, 154, 302-308.	1.0	5
80	Binuclear furanyl-azine metal complexes encapsulated in NaY zeolite as efficiently heterogeneous catalysts for phenol hydroxylation. Journal of Molecular Structure, 2020, 1206, 127687.	1.8	5
81	Oxidation of pollutants via an electro-Fenton-like process in aqueous media using ironâ€“zeolite modified electrodes. New Journal of Chemistry, 2021, 45, 12750-12757.	1.4	5
82	Performance of self-cleaning cotton textiles coated with TiO2, TiO2-SiO2 and TiO2-SiO2-HY in removing Rhodamine B and Reactive Red 120 dyes from aqueous solutions. , 0, 223, 447-455.		5
83	Novel iridium-pentafluorophenyl porphyrin complex. Materials Letters, 2017, 200, 6-9.	1.3	4
84	Tungsten hydride complex as a template in organicâ€“inorganic hybrid materials. Solid State Sciences, 2003, 5, 519-523.	1.5	3
85	Tarnish and corrosion evaluation of a blue goldâ€based alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2009, 60, 355-359.	0.8	2
86	Synthesis and evaluation of NLO properties of Ï€-conjugated donor-acceptor systems bearing pyrrole and thiophene heterocycles. , 2011, , .		2
87	Highly efficient and thermally stable NLO organic materials based on pyrrole and thiophene heterocycles. Proceedings of SPIE, 2011, , .	0.8	2
88	Styrene Epoxidation Over Heterogeneous Manganese(III) Complexes. Archives of Metallurgy and Materials, 2016, 61, 1477-1482.	0.6	2
89	Effect of Concentration of the Diazoalcene Molybdenum Complex Immobilized in Ureasil Matrix. Journal of Sol-Gel Science and Technology, 2004, 32, 353-356.	1.1	1
90	Noncovalent Anchoring of Hydride Tungsten Complex on Mesoporous Materials. Studies in Surface Science and Catalysis, 2006, 162, 417-424.	1.5	1

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91	Study of a purple goldâ€based alloy resistance to tarnishing in a sulphuric solution. Materials and Corrosion - Werkstoffe Und Korrosion, 2009, 60, 450-454.	0.8	1
92	Styrene Oxidation by Copper(II) Complexes Salen-Type Encapsulated into Nay Zeolite. Archives of Metallurgy and Materials, 2013, 58, 1291-1294.	0.6	1
93	Recovery of Cr-biosorption supports as catalysts for the oxidation of cyclohexanol. Journal of Biotechnology, 2010, 150, 248-248.	1.9	0
94	Comparative study of tarnishing resistance of several coloured gold based alloys. Corrosion Engineering Science and Technology, 2011, 46, 271-276.	0.7	0
95	413 Enhancing 5-FU Activity in Colorectal Carcinoma-derived Cell Lines â€“ Combination With Monocarboxylate Transporter Inhibitors and Encapsulation into Zeolites. European Journal of Cancer, 2012, 48, S100.	1.3	0