Gilmar PatrocÃ-nio Thim

List of Publications by Year
in descending order

86 papers	2,619 citations	172457 29 h-index	214800 47 g-index
86 all docs	86 docs citations	86 times ranked	3025 citing authors

#	Article	IF	Citations
1	Review of mullite synthesis routes by solâ€“gel method. Journal of Sol-Gel Science and Technology, 2010, 55, 111-125.	2.4	149
2	Phenol removal from aqueous solution by activated carbon produced from avocado kernel seeds. Chemical Engineering Journal, 2011, 174, 49-57.	12.7	140
3	Effects of octadecylamine functionalization of carbon nanotubes on dispersion, polarity, and mechanical properties of CNT/HDPE nanocomposites. Journal of Materials Science, 2018, 53, 14311-14327.	3.7	132
4	Effect of cure temperature on the formation of metakaolinite-based geopolymer. Ceramics International, 2015, 41, 7302-7311.	4.8	118
5	Carbon Nanostructure-based Sensors: A Brief Review on Recent Advances. Advances in Materials Science and Engineering, 2019, 2019, 1-21.	1.8	100
6	Functionalized cellulose nanocrystals as reinforcement in biodegradable polymer nanocomposites. Polymer Composites, 2018, 39, E9.	4.6	88
7	Dodecylamine functionalization of carbon nanotubes to improve dispersion, thermal and mechanical properties of polyethylene based nanocomposites. Applied Surface Science, 2017, 410, 267-277.	6.1	81
8	Recent advances in the use of carbon nanotubes as smart biomaterials. Journal of Materials Chemistry B, 2019, 7, 1343-1360.	5.8	81
9	Correlation of surface treatment, dispersion and mechanical properties of HDPE/CNT nanocomposites. Applied Surface Science, 2016, 389, 921-929.	6.1	76
10	Methylene blue photodegradation employing hexagonal prism-shaped niobium oxide as heterogeneous catalyst: Effect of catalyst dosage, dye concentration, and radiation source. Materials Chemistry and Physics, 2018, 214, 95-106.	4.0	76
11	Adsorption of phosphate from aqueous solution by hydrous zirconium oxide. Environmental Technology (United Kingdom), 2012, 33, 1345-1351.	2.2	73
12	Influence of carbon nanotubes on epoxy resin cure reaction using different techniques: A comprehensive review. Polymer Engineering and Science, 2014, 54, 2461-2469.	3.1	71
13	Solâ€“gel silica film preparation from aqueous solutions for corrosion protection. Journal of Non-Crystalline Solids, 2000, 273, 124-128.	3.1	65
14	Carbon nanotube functionalized with dodecylamine for the effective dispersion in solvents. Applied Surface Science, 2015, 357, 2154-2159.	6.1	61
15	Functionalization of Multi-Walled Carbon Nanotube and Mechanical Property of Epoxy-Based Nanocomposite. Journal of Aerospace Technology and Management, 2015, 7, 289-293.	0.3	52
16	A Lennard-Jones plus Coulomb potential for Al3+ ions in aqueous solutions. Journal of Chemical Physics, 2010, 132, 114509.	3.0	49
17	Cure study of epoxy resin reinforced with multiwalled carbon nanotubes by Raman and luminescence spectroscopy. Journal of Applied Polymer Science, 2013, 127, 544-553.	2.6	47
18	Effect of urea on lead zirconate titanateâ€”Pb(Zr0.52Ti0.48)O3â€”nanopowders synthesized by the Pechini method. Journal of the European Ceramic Society, 2005, 25, 743-748.	5.7	45

#	Article	IF	Citations
19	Effect of synthesis medium on structural and photocatalytic properties of ZnO/carbon xerogel composites for solar and visible light degradation of 4-chlorophenol and bisphenol A. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 584, 124034.	4.7	44
20	Influence of carbon nanotube concentration and sonication temperature on mechanical properties of HDPE/CNT nanocomposites. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 531-539.	2.1	41
21	Activated carbon derived from macadamia nut shells: an effective adsorbent for phenol removal. Journal of Porous Materials, 2013, 20, 619-627.	2.6	40
22	Preparation and optical properties of trivalent europium doped into cordierite using the solâ€“gel process. Journal of Solid State Chemistry, 2003, 171, 375-381.	2.9	38
23	A chemical route for the synthesis of cubic bismuth zinc niobate pyrochlore nanopowders. Journal of Solid State Chemistry, 2004, 177, 4546-4551.	2.9	37
24	Influence of cassava starch content and sintering temperature on the alumina consolidation technique. Journal of the European Ceramic Society, 2009, 29, 1587-1594.	5.7	37
25	Crystallization kinetics of orthorhombic mullite from diphasic gels. Journal of Non-Crystalline Solids, 2002, 304, 19-24.	3.1	36
26	Effect of Nb/C ratio in the morphological, structural, optical and photocatalytic properties of novel and inexpensive Nb2O5/carbon xerogel composites. Ceramics International, 2018, 44, 6645-6652.	4.8	35
27	Functionalizing Graphene and Carbon Nanotubes. SpringerBriefs in Applied Sciences and Technology, 2016, , .	0.4	32
28	Carbon and TiO 2 synergistic effect on methylene blue adsorption. Materials Chemistry and Physics, 2016, 177, 330-338.	4.0	31
29	Study of curing process of glass fiber and epoxy resin composite by FT-NIR, photoacoustic spectroscopy and luminescence spectroscopy. Journal of Materials Science, 2011, 46, 1814-1823.	3.7	30
30	Phenol removal from aqueous solution by carbon xerogel. Journal of Sol-Gel Science and Technology, 2012, 63, 202-210.	2.4	30
31	Synthesis of novel ZnO/carbon xerogel composites: Effect of carbon content and calcination temperature on their structural and photocatalytic properties. Ceramics International, 2019, 45, 3657-3667.	4.8	30
32	Cr total removal in aqueous solution by PHENOTAN AP based tannin gel (TFC). Journal of Environmental Chemical Engineering, 2015, 3, 725-733.	6.7	26
33	Preparation, characterization, and application of low-cost aÃ§aÃ-seed-based activated carbon for phenol adsorption. International Journal of Environmental Research, 2018, 12, 755-764.	2.3	23
34	Evaluation of colloidal and polymeric routes in sol-gel synthesis of a bioactive glass-ceramic derived from 45S5 bioglass. Ceramics International, 2020, 46, 20264-20271.	4.8	23
35	Citric acid effect on aqueous solâ€“gel cordierite synthesis. Journal of Non-Crystalline Solids, 2000, 273, 140-144.	3.1	22
36	Effect of ethylene glycol on the mullite crystallization. Journal of the European Ceramic Society, 2012, 32, 835-842.	5.7	22

#	Article	IF	Citations
37	Enhanced water uptake of PHBV scaffolds with functionalized cellulose nanocrystals. Polymer Testing, 2019, 79, 106079.	4.8	22
38	The kinetic of mullite crystallization: Effect of water content. Journal of Non-Crystalline Solids, 2010, 356, 2980-2985.	3.1	21
39	How Do CNT affect the branch and crosslink reactions in CNT-epoxy. Materials Research Express, 2017, 4, 105101.	1.6	21
40	Adhesion and corrosion studies of a lithium based conversion coating film on the 2024 aluminum alloy. Thin Solid Films, 2004, 457, 307-312.	1.8	20
41	Preparation of a reticulated ceramic using vegetal sponge as templating. Ceramics International, 2009, 35, 1575-1579.	4.8	20
42	Facile preparation of Bi-doped ZnO/Î²-Bi2O3/Carbon xerogel composites towards visible-light photocatalytic applications: Effect of calcination temperature and bismuth content. Ceramics International, 2020, 46, 23895-23909.	4.8	20
43	Degradation kinetics of high-translucency dental zirconias: Mechanical properties and in-depth analysis of phase transformation. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 102, 103482.	3.1	19
44	Current advances in drug delivery of nanoparticles for respiratory disease treatment. Journal of Materials Chemistry B, 2021, 9, 1745-1761.	5.8	19
45	Kinetics of cordierite crystallization from diphasic gels. Journal of Sol-Gel Science and Technology, 2008, 47, 140-147.	2.4	18
46	Î±-wollastonite crystallization at low temperature. Ceramics International, 2020, 46, 6575-6580.	4.8	18
47	Effect of urea on the mullite crystallization. Journal of Non-Crystalline Solids, 2010, 356, 3013-3018.	3.1	17
48	The sonication effect on CNT-epoxy composites finally clarified. Polymer Composites, 2017, 38, 1964-1973.	4.6	16
49	Novel synthetic route for low-cost carbon-modified TiO2 with enhanced visible light photocatalytic activity: carbon content and calcination effects. Journal of Sol-Gel Science and Technology, 2018, 87, 380-390.	2.4	16
50	A brief review concerning the latest advances in the influence of nanoparticle reinforcement into polymeric-matrix biomaterials. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 1869-1893.	3.5	16
51	Functionalization of Carbon Nanotube and Applications. SpringerBriefs in Applied Sciences and Technology, 2016, , 31-61.	0.4	15
52	Synthesis of Graphene Oxide and Functionalized CNT Nanocomposites Based on Epoxy Resin. Journal of Aerospace Technology and Management, 0, 10, .	0.3	15
53	Mullite crystallization mechanism obtained from kinetic parameters determination for seeded and non-seeded gel. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 122, 169-173.	3.5	14
54	Thermal curing of glassâ€epoxy prepregs by luminescence spectroscopy. Journal of Applied Polymer Science, 2010, 117, 664-671.	2.6	14

#	Article	IF	Citations
55	Adsorbed water on iron surface by molecular dynamics. Applied Surface Science, 2016, 362, 70-78.	6.1	14
56	Non-Isothermal Crystallization Kinetic of Polyethylene/Carbon Nanotubes Nanocomposites Using an Isoconversional Method. Journal of Composites Science, 2019, 3, 21.	3.0	14
57	Sonocatalytic Degradation of Methylene Blue in the Presence of TiO₂Doped Carbon Nanostructuresâ€"Catalytic and Adsorption Comparison by Different Carbon Forms. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 725-733.	2.1	13
58	Functionalization of Graphene and Applications. SpringerBriefs in Applied Sciences and Technology, 2016, , 1-29.	0.4	12
59	Aluminaâ€toughened zirconia for dental applications: Physicochemical, mechanical, optical, and residual stress characterization after artificial aging. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 1135-1144.	3.4	12
60	Experimental and Monte Carlo simulation: the role of urea in mullite synthesis. Journal of the European Ceramic Society, 2001, 21, 759-763.	5.7	11
61	<scp>PCL</scp>/<scp>Î²â€AgVO₃</scp> nanocomposites obtained by solvent casting as potential antimicrobial biomaterials. Journal of Applied Polymer Science, 2021, 138, 50130.	2.6	11
62	Microstructure and mechanical properties of fully sintered zirconia glazed with an experimental glass. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 113, 104093.	3.1	11
63	AgVO3 nanorods silanized with Î³-MPS: An alternative for effective dispersion of AgVO3 in dental acrylic resins improving the mechanical properties. Applied Surface Science, 2021, 543, 148830.	6.1	11
64	Laser-induced formation of porous silicon. Applied Surface Science, 1995, 86, 398-404.	6.1	10
65	Understanding the water uptake in F-161 glass-epoxy composites using the techniques of luminescence spectroscopy and FT-NIR. Polimeros, 2017, 27, 171-182.	0.7	10
66	Preparation of nodular carbon cryogel from simple and inexpensive polycondensation reaction of commercial modified black wattle tannin. Journal of Sol-Gel Science and Technology, 2013, 67, 519-526.	2.4	9
67	Anomalous behavior of thermal stability of amino-carbon nanotubeâ€"epoxy nanocomposite. Journal of Composite Materials, 2015, 49, 3067-3073.	2.4	9
68	TiO2Carbon composite using coconut waste as carbon source: Sonocatalysis and adsorption evaluation. Surfaces and Interfaces, 2018, 12, 124-134.	3.0	8
69	Synthesis of Î²-AgVO3 nanowires by hydrothermal and precipitation routes: a comparative study. SN Applied Sciences, 2019, 1, 1.	2.9	8
70	Rotas de sÃntese e a homogeneidade dos precursores de mulita e cordierita. Quimica Nova, 1998, 21, 608.	0.3	6
71	Organic acids effect on crystallization kinetics of cordierite obtained by diphasic gel. Journal of Non-Crystalline Solids, 2002, 304, 31-35.	3.1	6
72	Energetic and electronic properties in a multilayered ZnO graphene-like nanostructure. Materials Research, 2016, 19, 497-504.	1.3	6

#	Article	IF	Citations
73	Covalently Î³-aminobutyric acid-functionalized carbon nanotubes: improved compatibility with PHBV matrix. SN Applied Sciences, 2019, 1, 1.	2.9	6
74	Urea effect on the mechanism of mullite crystallization. Journal of Materials Science, 2011, 46, 7384-7392.	3.7	5
75	Influence of CNT pre-dispersion into PHBV/CNT nanocomposites and evaluation of morphological, mechanical and crystallographic features. Materials Research Express, 2019, 6, 105375.	1.6	5
76	Kinetic study of Î±-BZN crystallization obtained from chemical method. Materials Research, 2008, 11, 289-293.	1.3	3
77	Mullite crystallization using fully hydrolyzed silica sol: the gelation temperature influence. Journal of Sol-Gel Science and Technology, 2014, 72, 219-226.	2.4	3
78	A novel synthesis route of titanium dioxide with (NH4)0.3TiO1.1F2.1 as by-product. Ceramics International, 2017, 43, 13677-13682.	4.8	3
79	Zinc oxide/carbon xerogel composites for photocatalytic applications developed through acidic and alkaline synthesis routes: structural, morphological, and photocatalytic evaluations. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	3
80	Non-Isothermal Crystallization Kinetics of Injection Grade PHBV and PHBV/Carbon Nanotubes Nanocomposites Using Isoconversional Method. Journal of Composites Science, 2020, 4, 52.	3.0	3
81	Resorcinol-based carbon xerogel/ZnO composite for solar-light-induced photodegradation of sulfamerazine. Optical Materials, 2022, 128, 112470.	3.6	3
82	Nanocomposites obtained by incorporation of silanized silver nanowires to improve mechanical properties and prevent fungal adhesion. Nano Select, 0, , .	3.7	1
83	Influence of Ethylene Glycol on the Mullite Crystallization Processes Analyzed by Rietveld Refinement. Journal of Aerospace Technology and Management, 2013, 5, 431-438.	0.3	1
84	Photoelectrochemically Induced Copper Deposition On P-Silicon Electrodes From CuCN Solutions. , 1990, 1186, 131.		0
85	CNT AND GO EPOXY NANOCOMPOSITES- AN EXPERIMENTAL COMPARISON OF MECHANICAL PROPERTIES. , 2017, , .		0
86	SYNTHESIS AND CHARACTERIZATION OF CNT-O 2 THIN FILMS AS DOUBLE LAYER CAPACITOR ELECTRODE. , 2017, , .		0