

Gilmar Patrocônio Thim

List of Publications by Year in descending order

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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	Resorcinol-based carbon xerogel/ZnO composite for solar-light-induced photodegradation of sulfamerazine. <i>Optical Materials</i> , 2022, 128, 112470.	3.6	3
2	PCL/ AgVO_3 nanocomposites obtained by solvent casting as potential antimicrobial biomaterials. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50130.	2.6	11
3	Microstructure and mechanical properties of fully sintered zirconia glazed with an experimental glass. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 113, 104093.	3.1	11
4	Alumina-toughened zirconia for dental applications: Physicochemical, mechanical, optical, and residual stress characterization after artificial aging. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 1135-1144.	3.4	12
5	Current advances in drug delivery of nanoparticles for respiratory disease treatment. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1745-1761.	5.8	19
6	AgVO_3 nanorods silanized with MPS : An alternative for effective dispersion of AgVO_3 in dental acrylic resins improving the mechanical properties. <i>Applied Surface Science</i> , 2021, 543, 148830.	6.1	11
7	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. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 584, 124034.	4.7	44
8	Degradation kinetics of high-translucency dental zirconias: Mechanical properties and in-depth analysis of phase transformation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 102, 103482.	3.1	19
9	β -wollastonite crystallization at low temperature. <i>Ceramics International</i> , 2020, 46, 6575-6580.	4.8	18
10	Evaluation of colloidal and polymeric routes in sol-gel synthesis of a bioactive glass-ceramic derived from 45S5 bioglass. <i>Ceramics International</i> , 2020, 46, 20264-20271.	4.8	23
11	Zinc oxide/carbon xerogel composites for photocatalytic applications developed through acidic and alkaline synthesis routes: structural, morphological, and photocatalytic evaluations. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	3
12	A brief review concerning the latest advances in the influence of nanoparticle reinforcement into polymeric-matrix biomaterials. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 1869-1893.	3.5	16
13	Non-Isothermal Crystallization Kinetics of Injection Grade PHBV and PHBV/Carbon Nanotubes Nanocomposites Using Isoconversional Method. <i>Journal of Composites Science</i> , 2020, 4, 52.	3.0	3
14	Facile preparation of Bi-doped ZnO/ Bi_2O_3 /Carbon xerogel composites towards visible-light photocatalytic applications: Effect of calcination temperature and bismuth content. <i>Ceramics International</i> , 2020, 46, 23895-23909.	4.8	20
15	Influence of CNT pre-dispersion into PHBV/CNT nanocomposites and evaluation of morphological, mechanical and crystallographic features. <i>Materials Research Express</i> , 2019, 6, 105375.	1.6	5
16	Synthesis of AgVO_3 nanowires by hydrothermal and precipitation routes: a comparative study. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	8
17	Enhanced water uptake of PHBV scaffolds with functionalized cellulose nanocrystals. <i>Polymer Testing</i> , 2019, 79, 106079.	4.8	22
18	Covalently γ -aminobutyric acid-functionalized carbon nanotubes: improved compatibility with PHBV matrix. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	6

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19	Recent advances in the use of carbon nanotubes as smart biomaterials. Journal of Materials Chemistry B, 2019, 7, 1343-1360.	5.8	81
20	Carbon Nanostructure-based Sensors: A Brief Review on Recent Advances. Advances in Materials Science and Engineering, 2019, 2019, 1-21.	1.8	100
21	Non-Isothermal Crystallization Kinetic of Polyethylene/Carbon Nanotubes Nanocomposites Using an Isoconversional Method. Journal of Composites Science, 2019, 3, 21.	3.0	14
22	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
23	Effect of Nb/C ratio in the morphological, structural, optical and photocatalytic properties of novel and inexpensive Nb ₂ O ₅ /carbon xerogel composites. Ceramics International, 2018, 44, 6645-6652.	4.8	35
24	TiO ₂ Carbon composite using coconut waste as carbon source: Sonocatalysis and adsorption evaluation. Surfaces and Interfaces, 2018, 12, 124-134.	3.0	8
25	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
26	Functionalized cellulose nanocrystals as reinforcement in biodegradable polymer nanocomposites. Polymer Composites, 2018, 39, E9.	4.6	88
27	Novel synthetic route for low-cost carbon-modified TiO ₂ 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
28	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
29	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
30	The sonication effect on CNT-epoxy composites finally clarified. Polymer Composites, 2017, 38, 1964-1973.	4.6	16
31	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
32	How Do CNT affect the branch and crosslink reactions in CNT-epoxy. Materials Research Express, 2017, 4, 105101.	1.6	21
33	A novel synthesis route of titanium dioxide with (NH ₄) _{0.3} TiO _{1.1} F _{2.1} as by-product. Ceramics International, 2017, 43, 13677-13682.	4.8	3
34	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
35	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
36	CNT AND GO EPOXY NANOCOMPOSITES- AN EXPERIMENTAL COMPARISON OF MECHANICAL PROPERTIES. , 2017, , .		0

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37	SYNTHESIS AND CHARACTERIZATION OF CNT-O ₂ THIN FILMS AS DOUBLE LAYER CAPACITOR ELECTRODE. , 2017, , .		0
38	Energetic and electronic properties in a multilayered ZnO graphene-like nanostructure. Materials Research, 2016, 19, 497-504.	1.3	6
39	Carbon and TiO ₂ synergistic effect on methylene blue adsorption. Materials Chemistry and Physics, 2016, 177, 330-338.	4.0	31
40	Correlation of surface treatment, dispersion and mechanical properties of HDPE/CNT nanocomposites. Applied Surface Science, 2016, 389, 921-929.	6.1	76
41	Functionalizing Graphene and Carbon Nanotubes. SpringerBriefs in Applied Sciences and Technology, 2016, , .	0.4	32
42	Functionalization of Carbon Nanotube and Applications. SpringerBriefs in Applied Sciences and Technology, 2016, , 31-61.	0.4	15
43	Functionalization of Graphene and Applications. SpringerBriefs in Applied Sciences and Technology, 2016, , 1-29.	0.4	12
44	Adsorbed water on iron surface by molecular dynamics. Applied Surface Science, 2016, 362, 70-78.	6.1	14
45	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
46	Sonocatalytic Degradation of Methylene Blue in the Presence of TiO ₂ Doped Carbon Nanostructuresâ€”Catalytic and Adsorption Comparison by Different Carbon Forms. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 725-733.	2.1	13
47	Effect of cure temperature on the formation of metakaolinite-based geopolymer. Ceramics International, 2015, 41, 7302-7311.	4.8	118
48	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
49	Carbon nanotube functionalized with dodecylamine for the effective dispersion in solvents. Applied Surface Science, 2015, 357, 2154-2159.	6.1	61
50	Anomalous behavior of thermal stability of amino-carbon nanotubeâ€”epoxy nanocomposite. Journal of Composite Materials, 2015, 49, 3067-3073.	2.4	9
51	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
52	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
53	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
54	Activated carbon derived from macadamia nut shells: an effective adsorbent for phenol removal. Journal of Porous Materials, 2013, 20, 619-627.	2.6	40

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55	Preparation of nodular carbon cryogel from simple and inexpensive polycondensation reaction of commercial modified black wattle tannin. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 67, 519-526.	2.4	9
56	Influence of Ethylene Glycol on the Mullite Crystallization Processes Analyzed by Rietveld Refinement. <i>Journal of Aerospace Technology and Management</i> , 2013, 5, 431-438.	0.3	1
57	Phenol removal from aqueous solution by carbon xerogel. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 63, 202-210.	2.4	30
58	Adsorption of phosphate from aqueous solution by hydrous zirconium oxide. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 1345-1351.	2.2	73
59	Effect of ethylene glycol on the mullite crystallization. <i>Journal of the European Ceramic Society</i> , 2012, 32, 835-842.	5.7	22
60	Phenol removal from aqueous solution by activated carbon produced from avocado kernel seeds. <i>Chemical Engineering Journal</i> , 2011, 174, 49-57.	12.7	140
61	Study of curing process of glass fiber and epoxy resin composite by FT-NIR, photoacoustic spectroscopy and luminescence spectroscopy. <i>Journal of Materials Science</i> , 2011, 46, 1814-1823.	3.7	30
62	Urea effect on the mechanism of mullite crystallization. <i>Journal of Materials Science</i> , 2011, 46, 7384-7392.	3.7	5
63	Review of mullite synthesis routes by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 111-125.	2.4	149
64	Thermal curing of glass-epoxy prepregs by luminescence spectroscopy. <i>Journal of Applied Polymer Science</i> , 2010, 117, 664-671.	2.6	14
65	A Lennard-Jones plus Coulomb potential for Al ³⁺ ions in aqueous solutions. <i>Journal of Chemical Physics</i> , 2010, 132, 114509.	3.0	49
66	Effect of urea on the mullite crystallization. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 3013-3018.	3.1	17
67	The kinetic of mullite crystallization: Effect of water content. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2980-2985.	3.1	21
68	Influence of cassava starch content and sintering temperature on the alumina consolidation technique. <i>Journal of the European Ceramic Society</i> , 2009, 29, 1587-1594.	5.7	37
69	Preparation of a reticulated ceramic using vegetal sponge as templating. <i>Ceramics International</i> , 2009, 35, 1575-1579.	4.8	20
70	Kinetics of cordierite crystallization from diphasic gels. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 47, 140-147.	2.4	18
71	Kinetic study of β -BZN crystallization obtained from chemical method. <i>Materials Research</i> , 2008, 11, 289-293.	1.3	3
72	Effect of urea on lead zirconate titanate (Pb(Zr _{0.52} Ti _{0.48})O ₃) nanopowders synthesized by the Pechini method. <i>Journal of the European Ceramic Society</i> , 2005, 25, 743-748.	5.7	45

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73	Mullite crystallization mechanism obtained from kinetic parameters determination for seeded and non-seeded gel. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 122, 169-173.	3.5	14
74	Adhesion and corrosion studies of a lithium based conversion coating film on the 2024 aluminum alloy. <i>Thin Solid Films</i> , 2004, 457, 307-312.	1.8	20
75	A chemical route for the synthesis of cubic bismuth zinc niobate pyrochlore nanopowders. <i>Journal of Solid State Chemistry</i> , 2004, 177, 4546-4551.	2.9	37
76	Preparation and optical properties of trivalent europium doped into cordierite using the sol-gel process. <i>Journal of Solid State Chemistry</i> , 2003, 171, 375-381.	2.9	38
77	Crystallization kinetics of orthorhombic mullite from diphasic gels. <i>Journal of Non-Crystalline Solids</i> , 2002, 304, 19-24.	3.1	36
78	Organic acids effect on crystallization kinetics of cordierite obtained by diphasic gel. <i>Journal of Non-Crystalline Solids</i> , 2002, 304, 31-35.	3.1	6
79	Experimental and Monte Carlo simulation: the role of urea in mullite synthesis. <i>Journal of the European Ceramic Society</i> , 2001, 21, 759-763.	5.7	11
80	Sol-gel silica film preparation from aqueous solutions for corrosion protection. <i>Journal of Non-Crystalline Solids</i> , 2000, 273, 124-128.	3.1	65
81	Citric acid effect on aqueous sol-gel cordierite synthesis. <i>Journal of Non-Crystalline Solids</i> , 2000, 273, 140-144.	3.1	22
82	Rotas de síntese e a homogeneidade dos precursores de mullita e cordierita. <i>Quimica Nova</i> , 1998, 21, 608.	0.3	6
83	Laser-induced formation of porous silicon. <i>Applied Surface Science</i> , 1995, 86, 398-404.	6.1	10
84	Photoelectrochemically Induced Copper Deposition On P-Silicon Electrodes From CuCN Solutions. , 1990, 1186, 131.		0
85	Synthesis of Graphene Oxide and Functionalized CNT Nanocomposites Based on Epoxy Resin. <i>Journal of Aerospace Technology and Management</i> , 0, 10, .	0.3	15
86	Nanocomposites obtained by incorporation of silanized silver nanowires to improve mechanical properties and prevent fungal adhesion. <i>Nano Select</i> , 0, , .	3.7	1