

Douglas Gouvea

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

1,610
citations

23
h-index

38
g-index

89
ext. papers

1,764
ext. citations

3.7
avg. IF

4.56
L-index

#	Paper	IF	Citations
87	Effect of Cobalt(II) Oxide and Manganese(IV) Oxide on Sintering of Tin(IV) Oxide. <i>Journal of the American Ceramic Society</i> , 2005 , 79, 799-804	3.8	144
86	Direct calorimetric measurement of enthalpy of adsorption of carbon dioxide on CD-MOF-2, a green metal-organic framework. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6790-3	16.4	120
85	Surface Segregation and Consequent SO ₂ Sensor Response in SnO ₂ /NiO. <i>Chemistry of Materials</i> , 2005 , 17, 4149-4153	9.6	108
84	Surface Energy and Thermodynamic Stability of γ -Alumina: Effect of Dopants and Water. <i>Chemistry of Materials</i> , 2006 , 18, 1867-1872	9.6	84
83	Microstructure and structure of NiO/nO ₂ and Fe ₂ O ₃ /nO ₂ systems. <i>Applied Surface Science</i> , 2003 , 214, 172-177	6.7	80
82	Sintering and Nanostability: The Thermodynamic Perspective. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1105-1121	3.8	57
81	Evidences of the evolution from solid solution to surface segregation in Ni-doped SnO ₂ nanoparticles using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 1081-1086	2.3	54
80	Surface Segregation in SnO ₂ /Fe ₂ O ₃ Nanopowders and Effects in Mössbauer Spectroscopy. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 2134-2138	2.3	48
79	Interface Energy Measurement of MgO and ZnO: Understanding the Thermodynamic Stability of Nanoparticles. <i>Chemistry of Materials</i> , 2010 , 22, 2502-2509	9.6	44
78	Densification and electrical conductivity of fast fired manganese-doped ceria ceramics. <i>Materials Letters</i> , 2005 , 59, 1195-1199	3.3	44
77	Surface segregation of additives on SnO ₂ based powders and their relationship with macroscopic properties. <i>Applied Surface Science</i> , 2002 , 195, 277-283	6.7	43
76	Quantification of MgO surface excess on the SnO ₂ nanoparticles and relationship with nanostability and growth. <i>Applied Surface Science</i> , 2011 , 257, 4219-4226	6.7	41
75	Energetics of CO ₂ and H ₂ O adsorption on zinc oxide. <i>Langmuir</i> , 2014 , 30, 9091-7	4	39
74	Structural and magnetic properties of pure and nickel doped SnO ₂ nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 496003	1.8	38
73	Spin-glass-like behavior of uncompensated surface spins in NiO nanoparticulated powder. <i>Physica B: Condensed Matter</i> , 2012 , 407, 2601-2605	2.8	36
72	Surface modification of SnO ₂ nanoparticles containing Mg or Fe: Effects on sintering. <i>Applied Surface Science</i> , 2007 , 253, 4581-4585	6.7	35
71	Flash sintering of ionic conductors: The need of a reversible electrochemical reaction. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 1253-1260	6	31

70	Sintering: the role of interface energies. <i>Applied Surface Science</i> , 2003 , 217, 194-201	6.7	30
69	Interface Excess and Polymorphic Stability of Nanosized Zirconia-Magnesia. <i>Chemistry of Materials</i> , 2008 , 20, 3505-3511	9.6	29
68	Densification and coarsening of SnO ₂ -based materials containing manganese oxide. <i>Journal of the European Ceramic Society</i> , 1998 , 18, 345-351	6	27
67	Nanocrystalline yttria-doped zirconia sintered by fast firing. <i>Materials Letters</i> , 2016 , 166, 196-200	3.3	24
66	Colloidal Processing of Glass-Ceramics for Laminated Object Manufacturing. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1186-1191	3.8	24
65	Experimental study of the structural, microscopy and magnetic properties of Ni-doped SnO ₂ nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 2960-2964	3.9	23
64	Relationship between surface segregation and rapid propane electrical response in Cd-doped SnO ₂ nanomaterials. <i>Sensors and Actuators B: Chemical</i> , 2008 , 133, 263-269	8.5	23
63	Effect of fluorine doping on the properties of tin oxide based powders prepared via Pechini method. <i>Applied Surface Science</i> , 2004 , 229, 24-29	6.7	20
62	Transport properties of La _{0.6} Y _{0.1} Ca _{0.3} MnO ₃ compounds with different interfaces. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 1271-1275	6	17
61	Influence of the acid-Basic character of oxide surfaces in dispersants effectiveness. <i>Ceramics International</i> , 2004 , 30, 2215-2221	5.1	16
60	The influence of the Chitosan adsorption on the stability of SnO ₂ suspensions. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 897-903	6	16
59	Using bone ash as an additive in porcelain sintering. <i>Ceramics International</i> , 2015 , 41, 487-496	5.1	15
58	TiO ₂ Surface Engineering to Improve Nanostability: The Role of Interface Segregation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4949-4960	3.8	14
57	Direct measurement of interface energies of magnesium aluminate spinel and a brief sintering analysis. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 4051-4058	6	13
56	Simultaneous segregation of lanthanum to surfaces and grain boundaries in MgAl ₂ O ₄ nanocrystals. <i>Applied Surface Science</i> , 2020 , 529, 147145	6.7	13
55	Quantifying adsorption of heparin on a PVC substrate using ATR-FTIR. <i>Polymer International</i> , 2005 , 54, 209-214	3.3	13
54	Surface and grain boundary excess of ZnO-doped TiO ₂ anatase nanopowders. <i>Ceramics International</i> , 2018 , 44, 11390-11396	5.1	12
53	Yttria-stabilized zirconia closed end tubes prepared by electrophoretic deposition. <i>Ceramics International</i> , 2011 , 37, 273-277	5.1	12

52	Surface and grain-boundary excess of ZnO-doped SnO ₂ nanopowders by the selective lixiviation method. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4331-4340	3.8	11
51	Synthesis of Ca-doped spinel by Ultrasonic Spray Pyrolysis. <i>Materials Letters</i> , 2016 , 171, 232-235	3.3	11
50	Surface Segregation in Chromium-Doped Nanocrystalline Tin Dioxide Pigments. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 170-176	3.8	11
49	Structural and hyperfine properties of Cr-doped SnO ₂ nanoparticles. <i>Journal of Physics: Conference Series</i> , 2010 , 217, 012079	0.3	11
48	Translucent Tin Dioxide Ceramics Obtained by Natural Sintering. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 2735-2736	3.8	11
47	The Nanocrystalline SnO ₂ /TiO ₂ System-Part II: Surface Energies and Thermodynamic Stability. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 638-644	3.8	11
46	A simple flash sintering setup under applied mechanical stress and controlled atmosphere. <i>MethodsX</i> , 2015 , 2, 392-8	1.9	10
45	Surface reactivity and electrophoretic deposition of ZrO ₂ /MgO mechanical mixture. <i>Journal of Materials Science</i> , 2007 , 42, 6946-6950	4.3	10
44	Modification of surface properties of alumina by plasma treatment. <i>Journal of Materials Chemistry</i> , 2000 , 10, 259-261		10
43	The Nanocrystalline SnO ₂ /TiO ₂ System-Part I: Structural Features. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 631-637	3.8	10
42	The Effect of Additives on the Sintering of Tin Oxide. <i>Solid State Phenomena</i> , 1992 , 25-26, 259-268	0.4	9
41	Energetics of CO and HO adsorption on alkaline earth metal doped TiO. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 15600-15607	3.6	8
40	Effects of particle size on the structural and hyperfine properties of tin dioxide nanoparticles. <i>Hyperfine Interactions</i> , 2011 , 202, 73-79	0.8	8
39	The rheological behavior and surface charging of gelcasting alumina suspensions. <i>Ceramics International</i> , 2008 , 34, 237-241	5.1	8
38	Engineering surface and electrophoretic deposition of SiC powder. <i>Materials Letters</i> , 2001 , 50, 115-119	3.3	8
37	Structural and hyperfine properties of Ni-doped SnO ₂ nanoparticles. <i>Hyperfine Interactions</i> , 2012 , 211, 77-82	0.8	7
36	Transport properties and phase separation in La _{0.6} Y _{0.1} Ca _{0.3} MnO ₃ ceramics. <i>Physica Status Solidi A</i> , 2003 , 199, 255-264		7
35	Polymeric Precursor Synthesis of Alumina Containing Manganese Oxide. <i>Materials Science Forum</i> , 1998 , 299-300, 91-98	0.4	6

34	Electrophoretic deposition of ZrO ₂ /TiO ₂ : a bi-component study concerning self-assemblies. <i>Journal of Materials Science</i> , 2009 , 44, 1851-1857	4.3	5
33	Surface tension of polyethylene used in thermal coating. <i>Polymer Engineering and Science</i> , 2000 , 40, 1663-1671	3.5	5
32	Caracterizaço superficial de nanopartculas de BaTiO ₃ preparado pelo mtodo dos precursores polimricos. <i>Ceramica</i> , 2010 , 56, 228-236	1	5
31	Effect of segregation on particle size stability and SPS sintering of Li ₂ O-Doped magnesium aluminate spinel. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 3213-3220	6	4
30	Microstructural effects of Sn addition to Fe ₂ O ₃ thin films. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 1338-42	1.3	4
29	Particle Size Distribution Analysis of an Alumina Powder: Influence of Some Dispersants, pH and Supersonic Vibration. <i>Materials Science Forum</i> , 2005 , 498-499, 73-78	0.4	4
28	Fe ₂ O ₃ -doped SnO ₂ membranes with enhanced mechanical resistance for ultrafiltration application. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 5959-5966	6	3
27	Surface modification of bovine bone ash prepared by milling and acid washing process. <i>Ceramics International</i> , 2009 , 35, 3043-3049	5.1	3
26	Ulcer pressure prevention and opportunity for innovation during the COVID-19 crisis. <i>Clinics</i> , 2020 , 75, e2292	2.3	3
25	Li ₂ O-doped MgAl ₂ O ₄ nanopowders: Energetics of interface segregation. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2835-2844	3.8	3
24	Thermoluminescence and optical absorption properties of glass from natural diopside and of synthetic diopside glass. <i>Journal of Non-Crystalline Solids</i> , 2017 , 456, 22-26	3.9	2
23	Doped Tin Oxide Nanometric Films for Environment Monitoring. <i>Materials Science Forum</i> , 2005 , 498-499, 636-641	0.4	2
22	Interface excess on Li ₂ O-doped Al ₂ O ₃ nanoparticles. <i>Ceramics International</i> , 2020 , 46, 10555-10560	5.1	2
21	Segregaço superficial de MgO em nanopartculas de TiO ₂ . <i>Ceramica</i> , 2016 , 62, 400-404	1	2
20	Development of Sodium Hydroxide-Activated Metakaolin with Nanocarbon Materials as Synthetic Ceramic Proppants. <i>Materials Science Forum</i> , 2018 , 912, 251-256	0.4	1
19	Evaluation of Industrial Rejects of Mineral and Metallurgical Processing as Ceramic Synthetic Proppants. <i>Materials Science Forum</i> , 2014 , 798-799, 503-508	0.4	1
18	ELECTRORHEOLOGY OF DISPERSIONS OF Ba _x Sr _(1-x) TiO ₃ IN SILICONE OIL UNDER AC OR DC ELECTRIC FIELD. <i>International Journal of Modern Physics B</i> , 2012 , 26, 1250081	1.1	1
17	Consolidaço de pastas cimentcias contendo policarboxilatos um estudo calorimtrico e reolgico. <i>Ceramica</i> , 2012 , 58, 137-143	1	1

16	Obtençã de BaTiO ₃ livre de resíduos de carbonato de bário pelo método dos precursores poliméricos. <i>Ceramica</i> , 2011 , 57, 338-347	1	1
15	Effects of Dependence between Solid Solution and Surface Excess in Nanoparticles. <i>Materials Science Forum</i> , 2010 , 660-661, 995-1000	0.4	1
14	Quantificaçã da segregaçã de MgO em pã nanométricos de SnO ₂ preparados por método químico. <i>Ceramica</i> , 2009 , 55, 393-399	1	1
13	Interface excess on Sb-doped TiO ₂ photocatalysts and its influence on photocatalytic activity. <i>Ceramics International</i> , 2021 , 47, 619-625	5.1	1
12	Efeito da calcinaçã do resíduo de bauxita nas características reológicas e no estado endurecido de suspensães com cimento Portland. <i>Ambiente Construído</i> , 2012 , 12, 53-61	0.4	0
11	Interfacial segregation in Cléddoped nano-ZnO polycrystalline semiconductors and its effect on electrical properties. <i>Ceramics International</i> , 2021 , 47, 24860-24860	5.1	0
10	Synthesis of TiO ₂ microspheres by ultrasonic spray pyrolysis and photocatalytic activity evaluation. <i>Ceramics International</i> , 2022 , 48, 9739-9745	5.1	0
9	Influence of Ti ⁴⁺ on the Energetics and Microstructure of SnO ₂ Nanoparticles. <i>Ceramic Engineering and Science Proceedings</i> , 2015 , 145-152	0.1	
8	Segregation and Color Change on (Cr,Ca) Codoped Nanocrystalline Tin Dioxide. <i>Advances in Science and Technology</i> , 2014 , 87, 73-78	0.1	
7	Modificaçã da estabilidade dos polimorfos de TiO ₂ nanométrico pelo excesso de superfície de SnO ₂ . <i>Ceramica</i> , 2012 , 58, 53-57	1	
6	Efeito da modificaçã da composiçã química na sinterizaçã e microestrutura de porcelanas de ossos bovinos. <i>Ceramica</i> , 2010 , 56, 393-398	1	
5	Uso de ossos bovinos calcinados como aditivo de sinterizaçã na fabricaçã de porcelanas. <i>Ceramica</i> , 2009 , 55, 252-256	1	
4	A new method for obtaining adsorption isotherms on colloidal suspensions via electrokinetic sonic amplitude measurement. <i>Langmuir</i> , 2005 , 21, 11645-50	4	
3	Influence of Tin Oxide Addition in the Morphologic Characteristics of Zinc Oxide Powders Synthesized by Pechini's Method. <i>Materials Science Forum</i> , 2005 , 498-499, 704-709	0.4	
2	Determinaçã das energias de superfície do SnO ₂ puro e dopado. <i>Ceramica</i> , 2009 , 55, 342-348	1	
1	Proppants Development and the Shale Oil and Gas Market Perspective. <i>Materials Science Forum</i> , 2018 , 930, 37-42	0.4	