

Douglas Gouvea

List of Publications by Year in descending order

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papers

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citations

257101

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264894

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89
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89
docs citations

89
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2181
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Cobalt(II) Oxide and Manganese(IV) Oxide on Sintering of Tin(IV) Oxide. Journal of the American Ceramic Society, 1996, 79, 799-804.	1.9	170
2	Direct Calorimetric Measurement of Enthalpy of Adsorption of Carbon Dioxide on CD-MOF-2, a Green Metal-Organic Framework. Journal of the American Chemical Society, 2013, 135, 6790-6793.	6.6	140
3	Surface Segregation and Consequent SO ₂ Sensor Response in SnO ₂ -NiO. Chemistry of Materials, 2005, 17, 4149-4153.	3.2	115
4	Surface Energy and Thermodynamic Stability of γ -Alumina: Effect of Dopants and Water. Chemistry of Materials, 2006, 18, 1867-1872.	3.2	96
5	Microstructure and structure of NiO-SnO ₂ and Fe ₂ O ₃ -SnO ₂ systems. Applied Surface Science, 2003, 214, 172-177.	3.1	88
6	Sintering and Nanostability: The Thermodynamic Perspective. Journal of the American Ceramic Society, 2016, 99, 1105-1121.	1.9	78
7	Evidences of the evolution from solid solution to surface segregation in Ni-doped SnO ₂ nanoparticles using Raman spectroscopy. Journal of Raman Spectroscopy, 2011, 42, 1081-1086.	1.2	72
8	Surface Segregation in SnO ₂ -Fe ₂ O ₃ Nanopowders and Effects in Mössbauer Spectroscopy. European Journal of Inorganic Chemistry, 2005, 2005, 2134-2138.	1.0	52
9	Structural and magnetic properties of pure and nickel doped SnO ₂ nanoparticles. Journal of Physics Condensed Matter, 2010, 22, 496003.	0.7	50
10	Interface Energy Measurement of MgO and ZnO: Understanding the Thermodynamic Stability of Nanoparticles. Chemistry of Materials, 2010, 22, 2502-2509.	3.2	50
11	Densification and electrical conductivity of fast fired manganese-doped ceria ceramics. Materials Letters, 2005, 59, 1195-1199.	1.3	49
12	Surface segregation of additives on SnO ₂ based powders and their relationship with macroscopic properties. Applied Surface Science, 2002, 195, 277-283.	3.1	48
13	Energetics of CO ₂ and H ₂ O Adsorption on Zinc Oxide. Langmuir, 2014, 30, 9091-9097.	1.6	47
14	Quantification of MgO surface excess on the SnO ₂ nanoparticles and relationship with nanostability and growth. Applied Surface Science, 2011, 257, 4219-4226.	3.1	43
15	Spin-glass-like behavior of uncompensated surface spins in NiO nanoparticulated powder. Physica B: Condensed Matter, 2012, 407, 2601-2605.	1.3	43
16	Flash sintering of ionic conductors: The need of a reversible electrochemical reaction. Journal of the European Ceramic Society, 2016, 36, 1253-1260.	2.8	40
17	Surface modification of SnO ₂ nanoparticles containing Mg or Fe: Effects on sintering. Applied Surface Science, 2007, 253, 4581-4585.	3.1	38
18	Nanocrystalline yttria-doped zirconia sintered by fast firing. Materials Letters, 2016, 166, 196-200.	1.3	38

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19	Sintering: the role of interface energies. Applied Surface Science, 2003, 217, 194-201.	3.1	32
20	Densification and coarsening of SnO ₂ -based materials containing manganese oxide. Journal of the European Ceramic Society, 1998, 18, 345-351.	2.8	30
21	Interface Excess and Polymorphic Stability of Nanosized Zirconia-Magnesia. Chemistry of Materials, 2008, 20, 3505-3511.	3.2	30
22	Relationship between surface segregation and rapid propane electrical response in Cd-doped SnO ₂ nanomaterials. Sensors and Actuators B: Chemical, 2008, 133, 263-269.	4.0	29
23	Experimental study of the structural, microscopy and magnetic properties of Ni-doped SnO ₂ nanoparticles. Journal of Non-Crystalline Solids, 2010, 356, 2960-2964.	1.5	29
24	Simultaneous segregation of lanthanum to surfaces and grain boundaries in MgAl ₂ O ₄ nanocrystals. Applied Surface Science, 2020, 529, 147145.	3.1	28
25	Colloidal Processing of Glass-Ceramics for Laminated Object Manufacturing. Journal of the American Ceramic Society, 2009, 92, 1186-1191.	1.9	27
26	TiO ₂ Surface Engineering to Improve Nanostability: The Role of Interface Segregation. Journal of Physical Chemistry C, 2019, 123, 4949-4960.	1.5	25
27	Effect of fluorine doping on the properties of tin oxide based powders prepared via Pechini's method. Applied Surface Science, 2004, 229, 24-29.	3.1	21
28	Using bone ash as an additive in porcelain sintering. Ceramics International, 2015, 41, 487-496.	2.3	19
29	The influence of the Chitosan adsorption on the stability of SnO ₂ suspensions. Journal of the European Ceramic Society, 2003, 23, 897-903.	2.8	18
30	Transport properties of La _{0.6} Y _{0.1} Ca _{0.3} MnO ₃ compounds with different interfaces. Journal of the European Ceramic Society, 2004, 24, 1271-1275.	2.8	18
31	Quantifying adsorption of heparin on a PVC substrate using ATR-FTIR. Polymer International, 2005, 54, 209-214.	1.6	18
32	Surface and grain boundary excess of ZnO-doped SnO ₂ nanopowders by the selective lixiviation method. Journal of the American Ceramic Society, 2017, 100, 4331-4340.	1.9	18
33	Energetics of CO ₂ and H ₂ O adsorption on alkaline earth metal doped TiO ₂ . Physical Chemistry Chemical Physics, 2020, 22, 15600-15607.	1.3	18
34	Influence of the acid-basic character of oxide surfaces in dispersants effectiveness. Ceramics International, 2004, 30, 2215-2221.	2.3	17
35	Surface and grain boundary excess of ZnO-doped TiO ₂ anatase nanopowders. Ceramics International, 2018, 44, 11390-11396.	2.3	17
36	Surface Segregation in Chromium-Doped Nanocrystalline Tin Dioxide Pigments. Journal of the American Ceramic Society, 2012, 95, 170-176.	1.9	15

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37	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.	1.9	15
38	Synthesis of Ca-doped spinel by Ultrasonic Spray Pyrolysis. <i>Materials Letters</i> , 2016, 171, 232-235.	1.3	15
39	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.	2.8	15
40	A simple flash sintering setup under applied mechanical stress and controlled atmosphere. <i>MethodsX</i> , 2015, 2, 392-398.	0.7	14
41	Interface excess on Sb-doped TiO ₂ photocatalysts and its influence on photocatalytic activity. <i>Ceramics International</i> , 2021, 47, 619-625.	2.3	14
42	Yttria-stabilized zirconia closed end tubes prepared by electrophoretic deposition. <i>Ceramics International</i> , 2011, 37, 273-277.	2.3	13
43	Modification of surface properties of alumina by plasma treatment. <i>Journal of Materials Chemistry</i> , 2000, 10, 259-261.	6.7	12
44	Structural and hyperfine properties of Cr-doped SnO ₂ nanoparticles. <i>Journal of Physics: Conference Series</i> , 2010, 217, 012079.	0.3	12
45	The Effect of Additives on the Sintering of Tin Oxide. <i>Solid State Phenomena</i> , 1992, 25-26, 259-268.	0.3	11
46	Translucent Tin Dioxide Ceramics Obtained by Natural Sintering. <i>Journal of the American Ceramic Society</i> , 1997, 80, 2735-2736.	1.9	11
47	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.	2.8	11
48	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.	2.8	11
49	Surface reactivity and electrophoretic deposition of ZrO ₂ –MgO mechanical mixture. <i>Journal of Materials Science</i> , 2007, 42, 6946-6950.	1.7	10
50	The Nanocrystalline SnO ₂ –TiO ₂ System—Part I: Structural Features. <i>Journal of the American Ceramic Society</i> , 2016, 99, 631-637.	1.9	10
51	Engineering surface and electrophoretic deposition of SiC powder. <i>Materials Letters</i> , 2001, 50, 115-119.	1.3	9
52	Effects of particle size on the structural and hyperfine properties of tin dioxide nanoparticles. <i>Hyperfine Interactions</i> , 2011, 202, 73-79.	0.2	9
53	Interfacial segregation in Cl ⁻ -doped nano-ZnO polycrystalline semiconductors and its effect on electrical properties. <i>Ceramics International</i> , 2021, 47, 24860-24867.	2.3	9
54	The rheological behavior and surface charging of gelcasting alumina suspensions. <i>Ceramics International</i> , 2008, 34, 237-241.	2.3	8

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55	Structural and hyperfine properties of Ni-doped SnO ₂ nanoparticles. <i>Hyperfine Interactions</i> , 2012, 211, 77-82.	0.2	8
56	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.	1.9	8
57	Caracterização superficial de nanopartículas de BaTiO ₃ preparado pelo método dos precursores poliméricos. <i>Ceramica</i> , 2010, 56, 228-236.	0.3	8
58	Polymeric Precursor Synthesis of Alumina Containing Manganese Oxide. <i>Materials Science Forum</i> , 1999, 299-300, 91-98.	0.3	7
59	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.	1.7	7
60	Interface excess on Li ₂ O-doped γ -Al ₂ O ₃ nanoparticles. <i>Ceramics International</i> , 2020, 46, 10555-10560.	2.3	7
61	Surface tension of polyethylene used in thermal coating. <i>Polymer Engineering and Science</i> , 2000, 40, 1663-1671.	1.5	5
62	Electrophoretic deposition of ZrO ₂ -Y ₂ O ₃ : a bi-component study concerning self-assemblies. <i>Journal of Materials Science</i> , 2009, 44, 1851-1857.	1.7	5
63	Surface modification of bovine bone ash prepared by milling and acid washing process. <i>Ceramics International</i> , 2009, 35, 3043-3049.	2.3	5
64	Synthesis of TiO ₂ microspheres by ultrasonic spray pyrolysis and photocatalytic activity evaluation. <i>Ceramics International</i> , 2022, 48, 9739-9745.	2.3	5
65	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.	0.3	4
66	Microstructural Effects of Sn Addition to Fe ₂ O ₃ ; Thin Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 1338-1342.	0.9	4
67	Ulcer pressure prevention and opportunity for innovation during the COVID-19 crisis. <i>Clinics</i> , 2020, 75, e2292.	0.6	4
68	Doped Tin Oxide Nanometric Films for Environment Monitoring. <i>Materials Science Forum</i> , 2005, 498-499, 636-641.	0.3	2
69	Obtenção de BaTiO ₃ livre de resíduos de carbonato de bário pelo método dos precursores poliméricos. <i>Ceramica</i> , 2011, 57, 338-347.	0.3	2
70	Segregação superficial de MgO em nanopartículas de TiO ₂ . <i>Ceramica</i> , 2016, 62, 400-404.	0.3	2
71	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.	1.5	2
72	Self-segregation and solubility in nonstoichiometric MgAl ₂ O ₄ nanoparticles. <i>Journal of the American Ceramic Society</i> , 2022, 105, 4994-5002.	1.9	2

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73	A New Method for Obtaining Adsorption Isotherms on Colloidal Suspensions via Electrokinetic Sonic Amplitude Measurement. Langmuir, 2005, 21, 11645-11650.	1.6	1
74	Effects of Dependence between Solid Solution and Surface Excess in Nanoparticles. Materials Science Forum, 2010, 660-661, 995-1000.	0.3	1
75	ELECTORRHEOLOGY OF DISPERSIONS OF $Ba_xSr_{(1-x)}TiO_3$ IN SILICONE OIL UNDER AC OR DC ELECTRIC FIELD. International Journal of Modern Physics B, 2012, 26, 1250081.	1.0	1
76	Consolidação de pastas cimentícias contendo policarboxilatos um estudo calorimétrico e reológico. Ceramica, 2012, 58, 137-143.	0.3	1
77	Evaluation of Industrial Rejects of Mineral and Metallurgical Processing as Ceramic Synthetic Proppants. Materials Science Forum, 2014, 798-799, 503-508.	0.3	1
78	Development of Sodium Hydroxide-Activated Metakaolin with Nanocarbon Materials as Synthetic Ceramic Proppants. Materials Science Forum, 2018, 912, 251-256.	0.3	1
79	Proppants Development and the Shale Oil and Gas Market Perspective. Materials Science Forum, 2018, 930, 37-42.	0.3	1
80	Quantificação da segregação de MgO em pós nanométricos de SnO ₂ preparados por método químico. Ceramica, 2009, 55, 393-399.	0.3	1
81	Efeito da calcinação do resíduo de bauxita nas características reológicas e no estado endurecido de suspensões com cimento Portland. Ambiente Construído, 2012, 12, 53-61.	0.2	1
82	Influence of Tin Oxide Addition in the Morphologic Characteristics of Zinc Oxide Powders Synthesized by Pechini's Method. Materials Science Forum, 2005, 498-499, 704-709.	0.3	0
83	Uso de ossos bovinos calcinados como aditivo de sinterização na fabricação de porcelanas. Ceramica, 2009, 55, 252-256.	0.3	0
84	Efeito da modificação da composição química na sinterização e microestrutura de porcelanas de ossos bovinos. Ceramica, 2010, 56, 393-398.	0.3	0
85	Modificação da estabilidade dos polimorfos de TiO ₂ nanométrico pelo excesso de superfície de SnO ₂ . Ceramica, 2012, 58, 53-57.	0.3	0
86	Segregation and Color Change on (Cr,Ca) Codoped Nanocrystalline Tin Dioxide. Advances in Science and Technology, 2014, 87, 73-78.	0.2	0
87	Determinação das energias de superfície do SnO ₂ puro e dopado. Ceramica, 2009, 55, 342-348.	0.3	0