

# Douglas Gouvea

## List of Publications by Year in descending order

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87  
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257450

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docs citations

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times ranked

2181  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-segregation and solubility in nonstoichiometric $\text{MgAl}_2\text{O}_4$ nanoparticles. <i>Journal of the American Ceramic Society</i> , 2022, 105, 4994-5002.	3.8	2
2	Synthesis of $\text{TiO}_2$ microspheres by ultrasonic spray pyrolysis and photocatalytic activity evaluation. <i>Ceramics International</i> , 2022, 48, 9739-9745.	4.8	5
3	Interface excess on Sb-doped $\text{TiO}_2$ photocatalysts and its influence on photocatalytic activity. <i>Ceramics International</i> , 2021, 47, 619-625.	4.8	14
4	Interfacial segregation in $\text{Cl}^-$ -doped nano-ZnO polycrystalline semiconductors and its effect on electrical properties. <i>Ceramics International</i> , 2021, 47, 24860-24867.	4.8	9
5	Interface excess on Li <sub>2</sub> O-doped $\text{Al}_2\text{O}_3$ nanoparticles. <i>Ceramics International</i> , 2020, 46, 10555-10560.	4.8	7
6	$\text{Li}_2\text{O}$ -doped $\text{MgAl}_2\text{O}_4$ nanopowders: Energetics of interface segregation. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2835-2844.	3.8	8
7	Energetics of $\text{CO}_2$ and $\text{H}_2\text{O}$ adsorption on alkaline earth metal doped $\text{TiO}_2$ . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15600-15607.	2.8	18
8	Simultaneous segregation of lanthanum to surfaces and grain boundaries in $\text{MgAl}_2\text{O}_4$ nanocrystals. <i>Applied Surface Science</i> , 2020, 529, 147145.	6.1	28
9	$\text{Fe}_2\text{O}_3$ -doped $\text{SnO}_2$ membranes with enhanced mechanical resistance for ultrafiltration application. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5959-5966.	5.7	11
10	Ulcer pressure prevention and opportunity for innovation during the COVID-19 crisis. <i>Clinics</i> , 2020, 75, e2292.	1.5	4
11	$\text{TiO}_2$ Surface Engineering to Improve Nanostability: The Role of Interface Segregation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4949-4960.	3.1	25
12	Effect of segregation on particle size stability and SPS sintering of Li <sub>2</sub> O-Doped magnesium aluminate spinel. <i>Journal of the European Ceramic Society</i> , 2019, 39, 3213-3220.	5.7	11
13	Development of Sodium Hydroxide-Activated Metakaolin with Nanocarbon Materials as Synthetic Ceramic Proppants. <i>Materials Science Forum</i> , 2018, 912, 251-256.	0.3	1
14	Surface and grain boundary excess of ZnO-doped $\text{TiO}_2$ anatase nanopowders. <i>Ceramics International</i> , 2018, 44, 11390-11396.	4.8	17
15	Proppants Development and the Shale Oil and Gas Market Perspective. <i>Materials Science Forum</i> , 2018, 930, 37-42.	0.3	1
16	Surface and grain boundary excess of ZnO-doped $\text{SnO}_2$ nanopowders by the selective lixiviation method. <i>Journal of the American Ceramic Society</i> , 2017, 100, 4331-4340.	3.8	18
17	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.	5.7	15
18	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.	3.1	2

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19	SegregaĂŁo superficial de MgO em nanopartĂculas de TiO <sub>2</sub> . Ceramica, 2016, 62, 400-404.	0.8	2
20	The Nanocrystalline SnO <sub>2</sub> –TiO <sub>2</sub> System”Part I: Structural Features. Journal of the American Ceramic Society, 2016, 99, 631-637.	3.8	10
21	The Nanocrystalline SnO <sub>2</sub> –TiO <sub>2</sub> System”Part II: Surface Energies and Thermodynamic Stability. Journal of the American Ceramic Society, 2016, 99, 638-644.	3.8	15
22	Sintering and Nanostability: The Thermodynamic Perspective. Journal of the American Ceramic Society, 2016, 99, 1105-1121.	3.8	78
23	Flash sintering of ionic conductors: The need of a reversible electrochemical reaction. Journal of the European Ceramic Society, 2016, 36, 1253-1260.	5.7	40
24	Nanocrystalline yttria-doped zirconia sintered by fast firing. Materials Letters, 2016, 166, 196-200.	2.6	38
25	Synthesis of Ca-doped spinel by Ultrasonic Spray Pyrolysis. Materials Letters, 2016, 171, 232-235.	2.6	15
26	A simple flash sintering setup under applied mechanical stress and controlled atmosphere. MethodsX, 2015, 2, 392-398.	1.6	14
27	Using bone ash as an additive in porcelain sintering. Ceramics International, 2015, 41, 487-496.	4.8	19
28	Segregation and Color Change on (Cr,Ca) Codoped Nanocrystalline Tin Dioxide. Advances in Science and Technology, 2014, 87, 73-78.	0.2	0
29	Evaluation of Industrial Rejects of Mineral and Metallurgical Processing as Ceramic Synthetic Proppants. Materials Science Forum, 2014, 798-799, 503-508.	0.3	1
30	Energetics of CO <sub>2</sub> and H <sub>2</sub> O Adsorption on Zinc Oxide. Langmuir, 2014, 30, 9091-9097.	3.5	47
31	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.	13.7	140
32	ELECTRORHEOLOGY OF DISPERSIONS OF Ba <sub>x</sub> Sr <sub>(1-x)</sub> TiO <sub>3</sub> IN SILICONE OIL UNDER AC OR DC ELECTRIC FIELD. International Journal of Modern Physics B, 2012, 26, 1250081.	2.0	1
33	ModificaĂŁo da estabilidade dos polimorfos de TiO <sub>2</sub> nanomĂtrico pelo excesso de superfĂcie de SnO <sub>2</sub> . Ceramica, 2012, 58, 53-57.	0.8	0
34	ConsolidaĂŁo de pastas cimentĂcias contendo policarboxilatos um estudo calorimĂtrico e reolĂgico. Ceramica, 2012, 58, 137-143.	0.8	1
35	Structural and hyperfine properties of Ni-doped SnO <sub>2</sub> nanoparticles. Hyperfine Interactions, 2012, 211, 77-82.	0.5	8
36	Surface Segregation in Chromium”Doped Nanocrystalline Tin Dioxide Pigments. Journal of the American Ceramic Society, 2012, 95, 170-176.	3.8	15

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37	Spin-glass-like behavior of uncompensated surface spins in NiO nanoparticulated powder. <i>Physica B: Condensed Matter</i> , 2012, 407, 2601-2605.	2.7	43
38	Efeito da calcina��o do res��duo de bauxita nas caracter��sticas reol��gicas e no estado endurecido de suspens��es com cimento Portland. <i>Ambiente Constru��do</i> , 2012, 12, 53-61.	0.4	1
39	Obten��o de BaTiO <sub>3</sub> livre de res��duos de carbonato de b��rio pelo m��todo dos precursores polim��ricos. <i>Ceramica</i> , 2011, 57, 338-347.	0.8	2
40	Effects of particle size on the structural and hyperfine properties of tin dioxide nanoparticles. <i>Hyperfine Interactions</i> , 2011, 202, 73-79.	0.5	9
41	Evidences of the evolution from solid solution to surface segregation in Ni-doped SnO <sub>2</sub> nanoparticles using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1081-1086.	2.5	72
42	Yttria-stabilized zirconia closed end tubes prepared by electrophoretic deposition. <i>Ceramics International</i> , 2011, 37, 273-277.	4.8	13
43	Quantification of MgO surface excess on the SnO <sub>2</sub> nanoparticles and relationship with nanostability and growth. <i>Applied Surface Science</i> , 2011, 257, 4219-4226.	6.1	43
44	Microstructural Effects of Sn Addition to Fe <sub>2</sub> O <sub>3</sub> ; Thin Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 1338-1342.	0.9	4
45	Efeito da modifica��o da composi��o qu��mica na sinteriza��o e microestrutura de porcelanas de ossos bovinos. <i>Ceramica</i> , 2010, 56, 393-398.	0.8	0
46	Effects of Dependence between Solid Solution and Surface Excess in Nanoparticles. <i>Materials Science Forum</i> , 2010, 660-661, 995-1000.	0.3	1
47	Structural and hyperfine properties of Cr-doped SnO <sub>2</sub> nanoparticles. <i>Journal of Physics: Conference Series</i> , 2010, 217, 012079.	0.4	12
48	Structural and magnetic properties of pure and nickel doped SnO <sub>2</sub> nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 496003.	1.8	50
49	Experimental study of the structural, microscopy and magnetic properties of Ni-doped SnO <sub>2</sub> nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2960-2964.	3.1	29
50	Interface Energy Measurement of MgO and ZnO: Understanding the Thermodynamic Stability of Nanoparticles. <i>Chemistry of Materials</i> , 2010, 22, 2502-2509.	6.7	50
51	Caracteriza��o superficial de nanopart��culas de BaTiO <sub>3</sub> preparado pelo m��todo dos precursores polim��ricos. <i>Ceramica</i> , 2010, 56, 228-236.	0.8	8
52	Uso de ossos bovinos calcinados como aditivo de sinteriza��o na fabrica��o de porcelanas. <i>Ceramica</i> , 2009, 55, 252-256.	0.8	0
53	Electrophoretic deposition of ZrO <sub>2</sub> ��Y <sub>2</sub> O <sub>3</sub> : a bi-component study concerning self-assemblies. <i>Journal of Materials Science</i> , 2009, 44, 1851-1857.	3.7	5
54	Colloidal Processing of Glass��Ceramics for Laminated Object Manufacturing. <i>Journal of the American Ceramic Society</i> , 2009, 92, 1186-1191.	3.8	27

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55	Surface modification of bovine bone ash prepared by milling and acid washing process. <i>Ceramics International</i> , 2009, 35, 3043-3049.	4.8	5
56	Quantificação da segregação de MgO em pós nanométricos de SnO <sub>2</sub> preparados por método químico. <i>Ceramica</i> , 2009, 55, 393-399.	0.8	1
57	Determinação das energias de superfície do SnO <sub>2</sub> puro e dopado. <i>Ceramica</i> , 2009, 55, 342-348.	0.8	0
58	Relationship between surface segregation and rapid propane electrical response in Cd-doped SnO <sub>2</sub> nanomaterials. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 263-269.	7.8	29
59	The rheological behavior and surface charging of gelcasting alumina suspensions. <i>Ceramics International</i> , 2008, 34, 237-241.	4.8	8
60	Interface Excess and Polymorphic Stability of Nanosized Zirconia-Magnesia. <i>Chemistry of Materials</i> , 2008, 20, 3505-3511.	6.7	30
61	Surface modification of SnO <sub>2</sub> nanoparticles containing Mg or Fe: Effects on sintering. <i>Applied Surface Science</i> , 2007, 253, 4581-4585.	6.1	38
62	Surface reactivity and electrophoretic deposition of ZrO <sub>2</sub> -MgO mechanical mixture. <i>Journal of Materials Science</i> , 2007, 42, 6946-6950.	3.7	10
63	Surface Energy and Thermodynamic Stability of <sup>13</sup> C-Alumina: Effect of Dopants and Water. <i>Chemistry of Materials</i> , 2006, 18, 1867-1872.	6.7	96
64	Densification and electrical conductivity of fast fired manganese-doped ceria ceramics. <i>Materials Letters</i> , 2005, 59, 1195-1199.	2.6	49
65	Surface Segregation in SnO <sub>2</sub> -Fe <sub>2</sub> O <sub>3</sub> Nanopowders and Effects in Mössbauer Spectroscopy. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 2134-2138.	2.0	52
66	Quantifying adsorption of heparin on a PVC substrate using ATR-FTIR. <i>Polymer International</i> , 2005, 54, 209-214.	3.1	18
67	Doped Tin Oxide Nanometric Films for Environment Monitoring. <i>Materials Science Forum</i> , 2005, 498-499, 636-641.	0.3	2
68	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.	0.3	0
69	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
70	A New Method for Obtaining Adsorption Isotherms on Colloidal Suspensions via Electrokinetic Sonic Amplitude Measurement. <i>Langmuir</i> , 2005, 21, 11645-11650.	3.5	1
71	Surface Segregation and Consequent SO <sub>2</sub> Sensor Response in SnO <sub>2</sub> -NiO. <i>Chemistry of Materials</i> , 2005, 17, 4149-4153.	6.7	115
72	Transport properties of La <sub>0.6</sub> Y <sub>0.1</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> compounds with different interfaces. <i>Journal of the European Ceramic Society</i> , 2004, 24, 1271-1275.	5.7	18

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73	Influence of the acidâ€“basic character of oxide surfaces in dispersants effectiveness. <i>Ceramics International</i> , 2004, 30, 2215-2221.	4.8	17
74	Effect of fluorine doping on the properties of tin oxide based powders prepared via Pechiniâ€™s method. <i>Applied Surface Science</i> , 2004, 229, 24-29.	6.1	21
75	Microstructure and structure of NiOâ€“SnO <sub>2</sub> and Fe <sub>2</sub> O <sub>3</sub> â€“SnO <sub>2</sub> systems. <i>Applied Surface Science</i> , 2003, 214, 172-177.	6.1	88
76	Sintering: the role of interface energies. <i>Applied Surface Science</i> , 2003, 217, 194-201.	6.1	32
77	The influence of the Chitosan adsorption on the stability of SnO <sub>2</sub> suspensions. <i>Journal of the European Ceramic Society</i> , 2003, 23, 897-903.	5.7	18
78	Transport properties and phase separation in La <sub>0.6</sub> Y <sub>0.1</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> ceramics. <i>Physica Status Solidi A</i> , 2003, 199, 255-264.	1.7	7
79	Surface segregation of additives on SnO <sub>2</sub> based powders and their relationship with macroscopic properties. <i>Applied Surface Science</i> , 2002, 195, 277-283.	6.1	48
80	Engineering surface and electrophoretic deposition of SiC powder. <i>Materials Letters</i> , 2001, 50, 115-119.	2.6	9
81	Surface tension of polyethylene used in thermal coating. <i>Polymer Engineering and Science</i> , 2000, 40, 1663-1671.	3.1	5
82	Modification of surface properties of alumina by plasma treatment. <i>Journal of Materials Chemistry</i> , 2000, 10, 259-261.	6.7	12
83	Polymeric Precursor Synthesis of Alumina Containing Manganese Oxide. <i>Materials Science Forum</i> , 1999, 299-300, 91-98.	0.3	7
84	Densification and coarsening of SnO <sub>2</sub> -based materials containing manganese oxide. <i>Journal of the European Ceramic Society</i> , 1998, 18, 345-351.	5.7	30
85	Translucent Tin Dioxide Ceramics Obtained by Natural Sintering. <i>Journal of the American Ceramic Society</i> , 1997, 80, 2735-2736.	3.8	11
86	Effect of Cobalt(II) Oxide and Manganese(IV) Oxide on Sintering of Tin(IV) Oxide. <i>Journal of the American Ceramic Society</i> , 1996, 79, 799-804.	3.8	170
87	The Effect of Additives on the Sintering of Tin Oxide. <i>Solid State Phenomena</i> , 1992, 25-26, 259-268.	0.3	11