

Fausto Rubio Alonso

List of Publications by Year in descending order

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106
papers

2,566
citations

236925

25
h-index

214800

47
g-index

106
all docs

106
docs citations

106
times ranked

3587
citing authors

#	ARTICLE	IF	CITATIONS
1	A FT-IR Study of the Hydrolysis of Tetraethylorthosilicate (TEOS).. Spectroscopy Letters, 1998, 31, 199-219.	1.0	270
2	Poly(vinyl alcohol) Scaffolds with Tailored Morphologies for Drug Delivery and Controlled Release. Advanced Functional Materials, 2007, 17, 3505-3513.	14.9	189
3	Study of the hydrolysis and condensation of γ -Aminopropyltriethoxysilane by FT-IR spectroscopy. Journal of Materials Science, 2007, 42, 595-603.	3.7	162
4	Resorcinol-Formaldehyde Polycondensation in Deep Eutectic Solvents for the Preparation of Carbons and Carbon ^â Carbon Nanotube Composites. Chemistry of Materials, 2010, 22, 2711-2719.	6.7	126
5	Block-Copolymer assisted synthesis of hierarchical carbon monoliths suitable as supercapacitor electrodes. Journal of Materials Chemistry, 2010, 20, 773-780.	6.7	114
6	Preparation and characterization of tubular ceramic membranes for treatment of oil emulsions. Journal of the European Ceramic Society, 2005, 25, 1895-1903.	5.7	96
7	PPO15-PEO22-PPO15 block copolymer assisted synthesis of monolithic macro- and microporous carbon aerogels exhibiting high conductivity and remarkable capacitance. Journal of Materials Chemistry, 2009, 19, 1236.	6.7	82
8	FT-IR Study of the Hydrolysis and Polymerization of Tetraethyl Orthosilicate and Polydimethyl Siloxane in the Presence of Tetrabutyl Orthotitanate. Spectroscopy Letters, 2004, 37, 11-31.	1.0	72
9	Study of arsenopyrite weathering products in mine wastes from abandoned tungsten and tin exploitations. Journal of Hazardous Materials, 2011, 186, 590-601.	12.4	69
10	Synthesis of inorganic-organic hybrid materials from TEOS, TBT and PDMS. Journal of Materials Science, 2003, 38, 1773-1780.	3.7	66
11	DSC and FT-IR analysis of the drying process of titanium alkoxide derived precipitates. Thermochimica Acta, 1999, 326, 91-97.	2.7	57
12	Influence of silane concentration on the silanization of multiwall carbon nanotubes. Carbon, 2013, 57, 520-529.	10.3	51
13	Optimization of tannin rigid foam as adsorbents for wastewater treatment. Industrial Crops and Products, 2013, 49, 507-514.	5.2	49
14	Study of the reaction of γ -methacryloxypropyltrimethoxysilane (γ -MPS) with slate surfaces. Journal of Materials Science, 1999, 34, 3867-3873.	3.7	47
15	Influence of processing conditions in TEOS/PDMS derived silicon oxycarbide materials. Part 1: Microstructure and properties. Journal of the European Ceramic Society, 2013, 33, 1195-1205.	5.7	46
16	Interactions between the glass fiber coating and oxidized carbon nanotubes. Applied Surface Science, 2015, 330, 383-392.	6.1	40
17	Enhancing the fracture toughness of hierarchical composites through amino ^â functionalised carbon nanotube webs. Composites Part B: Engineering, 2019, 165, 537-544.	12.0	40
18	Application of Inverse Gas Chromatography to the Study of the Surface Properties of Slates. Clays and Clay Minerals, 1997, 45, 670-680.	1.3	39

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19	Hydrolysis of Titanium Tetrabutoxide. Study by FT-IR Spectroscopy. Spectroscopy Letters, 1999, 32, 289-304.	1.0	39
20	Dense bulk silicon oxycarbide glasses obtained by spark plasma sintering. Journal of the European Ceramic Society, 2012, 32, 3369-3378.	5.7	39
21	Tailoring the textural properties of hierarchical porous carbons using deep eutectic solvents. Journal of Materials Chemistry A, 2016, 4, 9146-9159.	10.3	39
22	A DSC study of the drying process of TEOS derived wet silica gels. Thermochimica Acta, 1997, 307, 51-56.	2.7	34
23	Inverse gas chromatography: a new approach to the estimation of specific interactions. Journal of Chromatography A, 1999, 845, 53-66.	3.7	31
24	Synthesis and sintering behaviour of spinel-type $\text{Co}_x\text{NiMn}_{2-x}\text{O}_4$ (0.2 ≤ x ≤ 1.2) prepared by the ethylene glycol-metal nitrate polymerized complex process. Ceramics International, 2005, 31, 599-610.	4.8	25
25	Transport properties of fast proton conducting mesoporous silica xerogels. Journal of Power Sources, 2007, 167, 53-57.	7.8	25
26	Seguimiento por espectroscopia infrarroja (FT-IR) de la copolimerización de TEOS (tetraetilortosilicato) y PDMS (polidimetilsiloxano) en presencia de tbt (tetrabutiltitanio). Boletín De La Sociedad Española De Cerámica Y Vidrio, 2004, 43, 883-890.	1.9	25
27	Texture and micro-nanostructure of porous silicon oxycarbide glasses prepared from hybrid materials aged in different solvents. Journal of the European Ceramic Society, 2011, 31, 1791-1801.	5.7	24
28	Adsorbent tannin foams: New and complementary applications in wastewater treatment. Chemical Engineering Journal, 2013, 228, 575-582.	12.7	24
29	Further characterization of the surface properties of the SiC particles through complementarity of XPS and IGC-ID techniques. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2018, 57, 231-239.	1.9	24
30	Synthesis and Characterization of Silicon Oxycarbide Derived Nanocomposites Obtained through Ceramic Processing of TEOS/PDMS Pre-ceramic Materials. Journal of Nano Research, 0, 14, 27-38.	0.8	23
31	Synthesis and characterization of boron silicon oxycarbide glass fibers. Journal of Non-Crystalline Solids, 2012, 358, 155-162.	3.1	23
32	Gradient pore size distributions in porous silicon oxycarbide materials. Journal of the European Ceramic Society, 2008, 28, 1871-1879.	5.7	21
33	Analysis of the interaction of vinyl and carbonyl silanes with carbon nanofiber surfaces. Carbon, 2011, 49, 1635-1645.	10.3	21
34	Chitosan, Gelatin and Poly(L-Lysine) Polyelectrolyte-Based Scaffolds and Films for Neural Tissue Engineering. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 207-232.	3.5	21
35	Effect of heating on the surface fractal dimensions of ZrO_2 . Journal of Materials Science Letters, 1997, 16, 49-52.	0.5	18
36	Effect of processing on the structural characteristics of sintered silicon oxycarbide materials. Journal of Non-Crystalline Solids, 2014, 391, 23-31.	3.1	18

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37	FT-IR and Porosity Study of Si-B-C-O Materials Obtained from TEOS-TEB-PDMS Derived Gel Precursors. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 195-199.	2.4	17
38	Characterisation of the pyrolysis process of boron-containing ormosils by FT-IR analysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 71, 827-845.	5.5	17
39	Surface Energy of Silica-TEOS-PDMS Ormosils. <i>Journal of Sol-Gel Science and Technology</i> , 2001, 20, 197-210.	2.4	16
40	Preparation and powder characterization of spinel-type $\text{Co}_x\text{NiMn}_{2-x}\text{O}_4$ ($0.2 \leq x \leq 1.2$) by the ethylene glycol-metal nitrate polymerized complex process. <i>Journal of the European Ceramic Society</i> , 2004, 24, 3035-3042.	5.7	16
41	Nanostructure and Micromechanical Properties of Silica/Silicon Oxycarbide Porous Composites. <i>Journal of the American Ceramic Society</i> , 2004, 87, 2093-2100.	3.8	16
42	The Role of γ -Aminopropyltriethoxysilane (γ -APS) on Thermal Stability of TEOS-PDMS Ormosils. <i>Journal of Sol-Gel Science and Technology</i> , 2005, 36, 77-85.	2.4	16
43	Silicon-titanium oxycarbide glasses as bimodal porous inorganic membranes. <i>Journal of the European Ceramic Society</i> , 2007, 27, 969-973.	5.7	15
44	Effect of TiO_2 on the Pore Structure of SiO_2 -PDMS Ormosils. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 18, 105-113.	2.4	14
45	Multipod structures of ZnO hydrothermally grown in the presence of Zn_3P_2 . <i>Materials Research Bulletin</i> , 2010, 45, 1586-1592.	5.2	14
46	Infiltration of SiO_2/SiOC Nanocomposites by a Multiple Sol Infiltration-Pyrolysis Process. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 511-516.	2.4	13
47	Application of Gradient and Confocal Raman Spectroscopy to Analyze Silver Nanoparticle Diffusion in Medieval Glasses. <i>Journal of Nano Research</i> , 2009, 8, 89-97.	0.8	13
48	Highly photoactive anatase nanoparticles obtained using trifluoroacetic acid as an electron scavenger and morphological control agent. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14358.	10.3	13
49	Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 18, 115-118.	2.4	12
50	Surface chemical and physical properties of TEOS-TBOT-PDMS hybrid materials. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 38, 133-145.	2.4	12
51	Effect of Ti concentration on the structure and texture of SiTiOC glasses. <i>Materials Characterization</i> , 2009, 60, 506-512.	4.4	12
52	Synthesis of glass ceramics from kaolin and dolomite mixture. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 194-201.	4.9	12
53	A FT-IR Study of the Synthesis of Boron Ormosils by Means of the Sol-Gel Process. <i>Journal of Sol-Gel Science and Technology</i> , 2002, 25, 255-263.	2.4	11
54	Silane Coupling Agent Structures on Carbon Nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4142-4152.	0.9	11

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55	Non-symmetric superparamagnetic clusters in the relaxor manganites $Sr_{2-x}Bi_xMnTiO_6$ ($0 \leq x \leq 0.75$). Journal of Materials Chemistry, 2012, 22, 11826.	6.7	11
56	Surface and Structural Modification of Nanostructured Mesoporous Silicon Oxycarbide Glasses Obtained from Pre-ceramic Hybrids Aged in NH_4OH . Journal of the American Ceramic Society, 2013, 96, 323-330.	3.8	11
57	Surface properties of bioactive TEOS-PDMS-TiO ₂ -CaO ormosils. Journal of Materials Science, 2014, 49, 4656-4669.	3.7	10
58	Structure properties relationship in silicon oxycarbide glasses obtained by spark plasma sintering. Ceramics International, 2014, 40, 11351-11358.	4.8	10
59	Study of the Silanization Process in CNFs: Time, Temperature, Silane Type and Concentration Influence. Journal of Nano Research, 2009, 4, 33-43.	0.8	9
60	Crystallization mechanism of glass-ceramics prepared from Ni-Cu-Co mining wastes. Journal of Non-Crystalline Solids, 2012, 358, 3028-3035.	3.1	9
61	Corrosion of SiC fibres with HNO ₃ . Journal of Materials Science, 1991, 26, 2841-2845.	3.7	8
62	Further insights into the porous structure of TEOS derived silica gels. Journal of Sol-Gel Science and Technology, 1997, 8, 159-163.	2.4	8
63	Characterization of surface and porous properties of synthetic hybrid lamellar silica. Journal of Non-Crystalline Solids, 2011, 357, 951-957.	3.1	8
64	Combined pyrolysis-ammonolysis treatment to retain C during nitridation of SiBOCN ceramics. Journal of the Ceramic Society of Japan, 2016, 124, 996-1002.	1.1	8
65	Title is missing!. Journal of Materials Science Letters, 1998, 17, 1839-1842.	0.5	7
66	Analysis by DSC of the drying and sintering processes of alkoxide-derived SiO ₂ -ZrO ₂ gels. Thermochimica Acta, 1998, 320, 231-238.	2.7	7
67	Surface energy distributions on silicoborate glasses. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 139, 227-239.	4.7	7
68	Preparation and sintering behaviour of spinel-type $CoxNiMn_{2-x}O_4$ ($0.2 \leq x \leq 1.2$) by the ethylene glycol-metal nitrate polymerized complex process. Journal of the European Ceramic Society, 2005, 25, 3021-3025.	5.7	7
69	Influence of Boron Concentration on the Surface Properties of TEOS-PDMS Hybrid Materials. Journal of Sol-Gel Science and Technology, 2005, 36, 113-124.	2.4	7
70	Aplicación de las espectroscopias IR/ATR y Raman al estudio de la superficie de vidrios sometidos a molidura. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2008, 47, 89-94.	1.9	7
71	Surface Energy Changes of Heat Treated TEOS Derived Silica Xerogels. Journal of Sol-Gel Science and Technology, 1997, 10, 31-44.	2.4	6
72	Influence of nanotube physicochemical properties on the decoration of multiwall carbon nanotubes with magnetic particles. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	6

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73	Dependence of the synthetic strategy on the thermochemical energy storage capability of $Cu_xCo_{3-x}O_4$ spinels. <i>Journal of the European Ceramic Society</i> , 2018, 38, 1583-1591.	5.7	6
74	Title is missing!. <i>Journal of Materials Science</i> , 1999, 34, 3397-3404.	3.7	5
75	Surface changes during pyrolytic conversion of hybrid materials to oxycarbide glasses. <i>Journal of Materials Science</i> , 2009, 44, 5743-5753.	3.7	5
76	Effect of reaction conditions on surface properties of TEOS-TBOT-PDMS hybrid materials. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 94-104.	2.4	5
77	Processing and properties of carbon nanofibers reinforced epoxy powder composites. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6021-6034.	1.9	5
78	Textural characteristics, degree of protonation, water uptake and proton transport properties relationships in colloidal sol-gel derived micro- and mesoporous silica membranes. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 5748-5757.	7.1	5
79	Preparation and Properties of Sustainable Brake Pads with Recycled End-of-Life Tire Rubber Particles. <i>Polymers</i> , 2021, 13, 3371.	4.5	5
80	Microstructure of low temperature processed CNFs/glass nanocomposites. <i>Journal of Materials Science</i> , 2012, 47, 5169-5180.	3.7	4
81	Insights into the structural and surface characteristics of microporous carbide derived carbons obtained through single and double halogen etching. <i>Microporous and Mesoporous Materials</i> , 2021, 310, 110675.	4.4	4
82	Caracterización superficial de distintos materiales de construcción. <i>Materiales De Construccion</i> , 2006, 56, .	0.7	4
83	Positron annihilation study of defect distribution in 8YSZ nanostructure. <i>Solid State Ionics</i> , 2011, 190, 67-74.	2.7	3
84	Insights into the Microstructural Evolution Occurring during Pyrolysis of Metal-Modified Ceramers Studied through Selective SiO_2 Removal. <i>Materials</i> , 2021, 14, 3276.	2.9	3
85	Reacción del 3-aminopropiltrietoxisilano (3-APS) con partículas de pizarra. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2001, 40, 101-106.	1.9	3
86	Influencia del tamaño del material híbrido en las características de los oxocarburos de silicio obtenidos. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2012, 51, 157-164.	1.9	3
87	Easy and Efficient Recovery of EMIMCl from Cellulose Solutions by Addition of Acetic Acid and the Transition from the Original Ionic Liquid to an Eutectic Mixture. <i>Molecules</i> , 2022, 27, 987.	3.8	3
88	Distribution of active sites on E-glass surface. <i>Journal of Materials Science Letters</i> , 1992, 11, 1501-1503.	0.5	2
89	Surface characterization of carbon fibers by inverse gas chromatography at low pressures. <i>Journal of Materials Research</i> , 2002, 17, 413-422.	2.6	2
90	Ion exchange effect on the structural and mechanical behavior of colored glasses. <i>Journal of the Australian Ceramic Society</i> , 2017, 53, 787-794.	1.9	2

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91	Structural, textural and electrochemical relationships in HF etched cobalt-silicon micro/mesoporous oxycarbides. <i>Ceramics International</i> , 2020, 46, 9380-9388.	4.8	2
92	Characterization of polymer-derived ceramers subjected to wet-etching and the evolution of the carbon phase during thermal conversion. <i>Journal of Non-Crystalline Solids</i> , 2020, 547, 120302.	3.1	2
93	Degradación térmica de nanocomposites TEOS/resol y γ -APS/resol. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2006, 45, 379-388.	1.9	2
94	Effect of alcohol/alkoxide ratio on the porosity of zirconia gels.. <i>Studies in Surface Science and Catalysis</i> , 1994, , 419-427.	1.5	1
95	Further Insights into the Porous Structure of TEOS Derived Silica Gels. <i>Journal of Sol-Gel Science and Technology</i> , 1997, 8, 159-163.	2.4	1
96	Effect of Pyrolysis Temperature on the Texture of Ormoborosil Materials for Obtaining SiBOC Oxycarbide Glasses. <i>Key Engineering Materials</i> , 2004, 264-268, 1847-1850.	0.4	1
97	Characterization of the Pyrolysis Process and Structure of Silicon Oxycarbide Based Materials from Organically Modified Silicate Gels. <i>Key Engineering Materials</i> , 2004, 264-268, 351-354.	0.4	1
98	Coloration and structure behavior after silver and copper nanoparticles formation in soda lime glass. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2017, 48, 1166-1172.	0.9	1
99	Estudio por espectroscopía infrarroja de la reacción de obtención de geles de borosilicato con diferentes relaciones Si/B. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2005, 44, 387-392.	1.9	1
100	Influence of TiO ₂ on the Pore Structure and Texture of SiO ₂ -PDMS Hybrid Materials. <i>Materials Research Society Symposia Proceedings</i> , 2004, 847, 35.	0.1	0
101	Effect of the surface parameters on the interaction of epoxy polymer supports with a lipase enzyme. <i>Polymer Bulletin</i> , 2015, 72, 195-218.	3.3	0
102	Influence of heating temperatures on structure and microstructure of chamotte-carbon composites. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2020, 61, 54-54.	1.9	0
103	Análisis del tratamiento en medio ácido de partículas de pizarra. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2002, 41, 393-398.	1.9	0
104	Estudio de la hidrólisis del trietilborato por espectroscopía infrarroja: evaluación de geles de borosilicato. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2007, 46, 247-252.	1.9	0
105	Influencia de la molienda en la energía superficial de fritas para esmaltes. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2013, 52, 55-62.	1.9	0
106	Pore Structure and Texture of Organic/Inorganic Hybrid Materials. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 387-397.	0.1	0