

Sergio Mestre Beltrán

List of Publications by Year in descending order

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54
papers

858
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471061
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525886
27
g-index

54
all docs

54
docs citations

54
times ranked

867
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-cost ceramic membranes: A research opportunity for industrial application. Journal of the European Ceramic Society, 2019, 39, 3392-3407.	2.8	102
2	Electrochemical degradation of norfloxacin using BDD and new Sb-doped SnO ₂ ceramic anodes in an electrochemical reactor in the presence and absence of a cation-exchange membrane. Separation and Purification Technology, 2019, 208, 68-75.	3.9	81
3	Comparison of extruded and pressed low cost ceramic supports for microfiltration membranes. Journal of the European Ceramic Society, 2015, 35, 3681-3691.	2.8	51
4	Solution Combustion Synthesis of (Co,Fe)Cr ₂ O ₄ pigments. Journal of the European Ceramic Society, 2012, 32, 1995-1999.	2.8	41
5	Role of starch characteristics in the properties of low-cost ceramic membranes. Journal of the European Ceramic Society, 2015, 35, 2333-2341.	2.8	34
6	Effect of porosity on the effective electrical conductivity of different ceramic membranes used as separators in electrochemical reactors. Journal of Membrane Science, 2006, 280, 536-544.	4.1	33
7	Electrochemical Degradation of Reactive Black 5 using two-different reactor configuration. Scientific Reports, 2020, 10, 4482.	1.6	32
8	Synthesis Mechanism of an Iron-Chromium Ceramic Pigment. Journal of the American Ceramic Society, 2000, 83, 29-32.	1.9	30
9	Influence of starch content on the properties of low-cost microfiltration ceramic membranes. Ceramics International, 2015, 41, 13064-13073.	2.3	30
10	Ceramic anion-exchange membranes based on microporous supports infiltrated with hydrated zirconium dioxide. RSC Advances, 2015, 5, 46348-46358.	1.7	29
11	Thermal Degradation Mechanism of a Thermostable Polyester Stabilized with an Open-Cage Oligomeric Silsesquioxane. Materials, 2018, 11, 22.	1.3	29
12	Synthesis and characterization of Au-modified macroporous Ni electrocatalysts for alkaline water electrolysis. International Journal of Hydrogen Energy, 2016, 41, 764-772.	3.8	28
13	Evaluation of new ceramic electrodes based on Sb-doped SnO ₂ for the removal of emerging compounds present in wastewater. Ceramics International, 2018, 44, 2216-2222.	2.3	27
14	Characteristics reproducibility of (Fe, Co)(Cr, Al) ₂ O ₄ pigments obtained by solution combustion synthesis. Ceramics International, 2016, 42, 12880-12887.	2.3	23
15	Porous single-fired wall tile bodies: Influence of quartz particle size on tile properties. Journal of the European Ceramic Society, 2010, 30, 17-28.	2.8	22
16	Fuel effect on solution combustion synthesis of Co(Cr,Al) ₂ O ₄ pigments. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2017, 56, 215-225.	0.9	22
17	On the underestimated effect of the starch ash on the characteristics of low cost ceramic membranes. Ceramics International, 2016, 42, 18944-18954.	2.3	20
18	Kinetic Study of Black Fe ₂ O ₃ •Cr ₂ O ₃ Pigment Synthesis: I, Influence of Synthesis Time and Temperature. Journal of the American Ceramic Society, 2003, 86, 945-950.	1.9	15

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19	Synthesis and electrochemical behavior of ceramic cation-exchange membranes based on zirconium phosphate. <i>Ceramics International</i> , 2013, 39, 4045-4054.	2.3	14
20	Comparison of porosity assessment techniques for low-cost ceramic membranes. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2017, 56, 29-38.	0.9	14
21	Development of a yellow ceramic pigment based on silver nanoparticles. <i>Journal of the European Ceramic Society</i> , 2012, 32, 2825-2830.	2.8	12
22	Solution combustion synthesis of (Co,Ni)Cr ₂ O ₄ pigments: Influence of initial solution concentration. <i>Ceramics International</i> , 2017, 43, 10032-10040.	2.3	12
23	Characterization of chromium-containing ceramic pigments by XRF and XRD. <i>X-Ray Spectrometry</i> , 2004, 33, 431-438.	0.9	11
24	CuO improved (Sn,Sb)O ₂ ceramic anodes for electrochemical advanced oxidation processes. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1274-1285.	1.1	10
25	Effect of tin concentration on the electrical properties of ceramic membranes used as separators in electrochemical reactors. <i>Journal of Membrane Science</i> , 2008, 323, 213-220.	4.1	9
26	Anion transport through ceramic electro dialysis membranes made with hydrated cerium dioxide. <i>Journal of the American Ceramic Society</i> , 2017, 100, 4180-4189.	1.9	9
27	Improvement in Char Strength with an Open Cage Silsesquioxane Flame Retardant. <i>Materials</i> , 2017, 10, 567.	1.3	8
28	Stability of (Cr)CaO.SnO ₂ .SiO ₂ pink pigment in ceramic frits. <i>Advances in Applied Ceramics</i> , 2002, 101, 213-220.	0.4	7
29	Magnetic Photocatalyst for Wastewater Tertiary Treatment at Pilot Plant Scale: Disinfection and Enrofloxacin Abatement. <i>Water (Switzerland)</i> , 2021, 13, 329.	1.2	7
30	Membrane electrochemical reactor for continuous regeneration of spent chromium plating baths. <i>Desalination</i> , 2006, 200, 668-670.	4.0	6
31	Interaction of the chromium-iron black pigment with porcelanised stoneware. <i>Ceramics International</i> , 2013, 39, 7453-7459.	2.3	6
32	Effects of composition and furnace temperature on (Ni, Co) (Cr, Al) ₂ O ₄ pigments synthesized by solution combustion route. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 179-190.	1.1	6
33	Síntesis de membranas cerámicas para la regeneración de baños de cromado agotados. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2005, 44, 409-414.	0.9	6
34	Study of the chlorfenvinphos pesticide removal under different anodic materials and different reactor configuration. <i>Chemosphere</i> , 2022, 290, 133294.	4.2	6
35	Antimony-doped tin dioxide ceramics used as standalone membrane electrodes in electrofiltration reactors enhance the oxidation of organic micropollutants. <i>Journal of Cleaner Production</i> , 2022, 363, 132342.	4.6	6
36	Colorimetric study of black (Fe,Cr)2O ₃ pigment synthesis reaction: relation between chromatic coordinates and synthesis conditions. <i>Advances in Applied Ceramics</i> , 2003, 102, 247-250.	0.4	5

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37	Preparation of Chamottes as a Raw Material for Low-Cost Ceramic Membranes. International Journal of Applied Ceramic Technology, 2016, 13, 1149-1158.	1.1	5
38	Solution combustion synthesis of (Ni,Fe)Cr ₂ O ₄ pigments: Effect of post-synthesis thermal treatments. Ceramics International, 2017, 43, 12789-12798.	2.3	5
39	Effect of secondary thermal treatment on crystallinity of spinel-type Co(Cr,Al) ₂ O ₄ pigments synthesized by solution combustion route. Journal of Non-Crystalline Solids, 2018, 501, 62-70.	1.5	5
40	Utilización de la teoría de Kubelka-Munk para optimizar el reciclado de residuos crudos de gres porcelánico. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2002, 41, 429-435.	0.9	5
41	Iron zircon pigment synthesis: Proposal of a mixing index for the raw materials mixtures. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2017, 56, 177-185.	0.9	4
42	Effect of type and amount of alumina as dopant over the densification and the electrical properties of zinc oxide ceramic electrodes. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2021, 60, 53-61.	0.9	4
43	Kinetic study of concentrated clay suspension gelling by dynamic viscoelasticity measurements: effect of solids and deflocculant content. Advances in Applied Ceramics, 2002, 101, 194-199.	0.4	3
44	Kinetic study of black (Fe,Cr) ₂ O ₃ pigment synthesis reaction: influence of composition and particle size. Advances in Applied Ceramics, 2003, 102, 251-256.	0.4	3
45	Chronopotentiometric study of ceramic cation-exchange membranes based on zirconium phosphate in contact with nickel sulfate solutions. Desalination and Water Treatment, 2013, 51, 597-605.	1.0	3
46	Low-cost inorganic cation exchange membrane for electrodialysis: optimum processing temperature for the cation exchanger. Desalination and Water Treatment, 2013, 51, 3317-3324.	1.0	3
47	Experimental design applied to improving the effect of bismuth oxide as a sintering aid for tin oxide. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2018, 57, 119-123.	0.9	3
48	Síntesis de un pigmento rojo a partir de nanopartículas de oro. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2012, 51, 75-82.	0.9	3
49	Improvement of the Electrochemical Behavior of (Sb, Sn, Cu)O Ceramic Electrodes as Electrochemical Advanced Oxidation Anodes. ChemElectroChem, 2019, 6, 2430-2437.	1.7	2
50	Effect of pore generator on microstructure and resistivity of Sb ₂ O ₃ and CuO doped SnO ₂ electrodes. Journal of Porous Materials, 2020, 27, 1801-1808.	1.3	2
51	Low-cost ceramic membrane bioreactor: Effect of backwashing, relaxation and aeration on fouling. Protozoa and bacteria removal. Chemosphere, 2022, 306, 135587.	4.2	2
52	Rheological behaviour of concentrated bimodal suspensions: Influence of quartz and deflocculant content on clay suspension viscoelasticity. Advances in Applied Ceramics, 2001, 100, 165-170.	0.4	1
53	Capas finas de ZrO ₂ para mejorar la resistencia química de los vidriados mates de calcio. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2012, 51, 169-174.	0.9	1
54	Study of lithium carbonate as sintering aid for tin oxide densification through experimental designs: Main variables and microstructure changes. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2023, 62, 194-202.	0.9	1