

Francois Mear

List of Publications by Year in descending order

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43
papers

922
citations

567144

15
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477173

29
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43
all docs

43
docs citations

43
times ranked

880
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural relaxation and rejuvenation in a metallic glass induced by shot-peening. Philosophical Magazine Letters, 2009, 89, 831-840.	0.5	98
2	Effects of temperature, reaction time and reducing agent content on the synthesis of macroporous foam glasses from waste funnel glasses. Materials Letters, 2006, 60, 929-934.	1.3	95
3	Mechanical behaviour and thermal and electrical properties of foam glass. Ceramics International, 2007, 33, 543-550.	2.3	79
4	Lead extraction from waste funnel cathode-ray tubes glasses by reaction with silicon carbide and titanium nitride. Journal of Hazardous Materials, 2009, 172, 117-123.	6.5	63
5	Characterisation of porous glasses prepared from Cathode Ray Tube (CRT). Powder Technology, 2006, 162, 59-63.	2.1	61
6	Characterization of lead, barium and strontium leachability from foam glasses elaborated using waste cathode ray-tube glasses. Journal of Hazardous Materials, 2011, 185, 236-241.	6.5	52
7	Immobilization of radioactive iodine in silver aluminophosphate glasses. Journal of Hazardous Materials, 2014, 264, 117-126.	6.5	43
8	Local structure around lead, barium and strontium in waste cathode-ray tube glasses. Journal of Non-Crystalline Solids, 2007, 353, 4640-4646.	1.5	40
9	Residual-stress distribution in shot-peened metallic-glass plate. Philosophical Magazine Letters, 2008, 88, 757-766.	0.5	40
10	Autonomic Self-Repairing Glassy Materials. Advanced Functional Materials, 2010, 20, 4371-4374.	7.8	38
11	Development and characterization of glass-ceramic sealants in the (CaO-Al ₂ O ₃ -SiO ₂ -B ₂ O ₃) system for Solid Oxide Electrolyzer Cells. Journal of Power Sources, 2012, 216, 227-236.	4.0	26
12	A new formulation of barium-strontium silicate glasses and glass-ceramics for high-temperature sealant. International Journal of Hydrogen Energy, 2012, 37, 11360-11369.	3.8	21
13	New viscous sealing glasses for electrochemical cells. International Journal of Hydrogen Energy, 2012, 37, 9351-9358.	3.8	21
14	Structural effects of shot-peening in bulk metallic glasses. Journal of Alloys and Compounds, 2009, 483, 256-259.	2.8	20
15	Self-Healing Glassy Thin Coating for High-Temperature Applications. ACS Applied Materials & Interfaces, 2016, 8, 4208-4215.	4.0	19
16	Niobium- and bismuth-silver phosphate glasses for the conditioning of radioactive iodine. Journal of Non-Crystalline Solids, 2019, 510, 51-61.	1.5	16
17	Glass Recycling. Springer Handbooks, 2019, , 1355-1377.	0.3	14
18	Spark Plasma Sintering of Mg-Based Amorphous Ball-Milled Powders. Materials Transactions, 2009, 50, 588-591.	0.4	13

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19	Synergic effect of V ₂ O ₅ and P ₂ O ₅ on the sealing properties of barium–strontium–alumino-silicate glass/ceramics. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15542-15552.	3.8	13
20	Characterization of self-healing glassy composites by high-temperature environmental scanning electron microscopy (HT-ESEM). <i>Journal of Electron Microscopy</i> , 2010, 59, 359-366.	0.9	12
21	Structural investigations of rapidly solidified Mg–Cu–Y alloys. <i>Journal of Alloys and Compounds</i> , 2010, 496, 149-154.	2.8	12
22	Influence of the Active Particles on the Self-Healing Efficiency in Glassy Matrix. <i>Advanced Engineering Materials</i> , 2011, 13, 426-435.	1.6	12
23	Highly inhomogeneous compressive plasticity in nanocrystal-toughened Zr–Cu–Ni–Al bulk metallic glass. <i>Philosophical Magazine Letters</i> , 2009, 89, 276-281.	0.5	11
24	French Studies on the Development of Potential Conditioning Matrices for Iodine 129. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1744, 15-20.	0.1	11
25	Further insights on the thermal degradation of aluminum metaphosphate prepared from aluminum dihydrogen phosphate solution. <i>Journal of the European Ceramic Society</i> , 2021, 41, 4970-4976.	2.8	11
26	Role of vanadium oxide on the lithium silicate glass structure and properties. <i>Journal of the American Ceramic Society</i> , 2021, 104, 2495-2505.	1.9	10
27	2D and 3D Observation and Mechanism of Self-Healing in Glass–Boron Composites. <i>Journal of the American Ceramic Society</i> , 2016, 99, 849-855.	1.9	8
28	Molybdenum Influence on the Mixed-Alkali Effect of Lithium–Sodium Phosphate Glasses. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15886-15891.	1.5	8
29	Aluminosilicate glass thin films elaborated by pulsed laser deposition. <i>Applied Surface Science</i> , 2017, 397, 13-18.	3.1	7
30	Chemical durability evaluation of silver phosphate–based glasses designed for the conditioning of radioactive iodine. <i>Journal of Nuclear Materials</i> , 2021, 550, 152919.	1.3	7
31	Influence of AlN, TiN and SiC reduction on the structural environment of lead in waste cathode-ray tubes glass: an x-ray absorption spectroscopy study. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 285104.	0.7	6
32	Bismuth silver phosphate glasses as alternative matrices for the conditioning of radioactive iodine. <i>Journal of Commonwealth Law and Legal Education</i> , 2015, 56, 71-75.	0.2	6
33	Crystallization mechanism of BaO–CaO–Al ₂ O ₃ –SiO ₂ (BCAS) glass thin-films. <i>Journal of Non-Crystalline Solids</i> , 2021, 551, 120406.	1.5	6
34	⁷¹ Ga- ⁷⁷ Se connectivities and proximities in gallium selenide crystal and glass probed by solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2017, 282, 71-82.	1.2	5
35	Structural characterization of a Cu(II) thin-film aging in a Cu-nitrate solution. <i>Applied Surface Science</i> , 2009, 255, 6607-6611.	3.1	4
36	Structure – Properties study of Na ₂ O–CaO–PbO–P ₂ O ₅ metaphosphate glasses. <i>Solid State Sciences</i> , 2021, 118, 106666.	1.5	4

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37	Development and characterisation of glass and glass ceramic sealants for solid oxide electrolyser cells. Ionics, 2012, 18, 441-447.	1.2	3
38	Effect of the process atmosphere on glass foam synthesis: A high-temperature environmental scanning electron microscopy (HT-ESEM) study. Ceramics International, 2021, 47, 26042-26049.	2.3	3
39	Characterization and Performance of Glass-Ceramic Sealants for SOECs. Advances in Science and Technology, 0, , .	0.2	2
40	Matériaux vitreux autocicatrisants pour application à haute température. Materiaux Et Techniques, 2010, 98, 403-407.	0.3	1
41	Glass Reactivity at High Temperature. Microscopy and Microanalysis, 2021, 27, 49-50.	0.2	1
42	Influence of V2O5 on a sealing glass and self-healing VB2-glass composites. Solid State Sciences, 2021, 119, 106706.	1.5	0
43	Matériaux vitreux auto-cicatrisants pour application à haute température, réalisés sous forme de couches minces. Materiaux Et Techniques, 2015, 103, 406.	0.3	0