

Joaquin Ramirez-Rico

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2961867/publications.pdf>

Version: 2024-02-01

76
papers

1,646
citations

279487

23
h-index

329751

37
g-index

78
all docs

78
docs citations

78
times ranked

1937
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of catalytic graphitization on the electrochemical behavior of wood derived carbons for use in supercapacitors. <i>Journal of Power Sources</i> , 2015, 278, 18-26.	4.0	101
2	Correlation of Structure and Performance of Hard Carbons as Anodes for Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2019, 31, 7288-7299.	3.2	94
3	Organization pattern of nacre in Pteriidae (Bivalvia: Mollusca) explained by crystal competition. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 1329-1337.	1.2	92
4	Permeability and mechanical integrity of porous biomorphic SiC ceramics for application as hot-gas filters. <i>Materials and Design</i> , 2016, 107, 450-460.	3.3	85
5	Iron-Catalyzed Graphitic Carbon Materials from Biomass Resources as Anodes for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2018, 11, 2776-2787.	3.6	81
6	Iron-catalyzed graphitization for the synthesis of nanostructured graphitic carbons. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4489-4516.	5.2	62
7	Chemical and Mechanical Consequences of Environmental Barrier Coating Exposure to Calcium-Magnesium-Aluminosilicate. <i>Journal of the American Ceramic Society</i> , 2011, 94, s178.	1.9	61
8	An electrochemical evaluation of nitrogen-doped carbons as anodes for lithium ion batteries. <i>Carbon</i> , 2020, 164, 261-271.	5.4	53
9	Nacre and false nacre (foliated aragonite) in extant monoplacophorans (=Tryblidiida: Mollusca). <i>Die Naturwissenschaften</i> , 2009, 96, 111-122.	0.6	46
10	High-temperature plastic behaviour of Al ₂ O ₃ -Y ₃ Al ₅ O ₁₂ directionally solidified eutectics. <i>Acta Materialia</i> , 2006, 54, 3107-3116.	3.8	45
11	Characterization of porous graphitic monoliths from pyrolyzed wood. <i>Journal of Materials Science</i> , 2014, 49, 7688-7696.	1.7	41
12	Thermal conductivity of porous biomorphic SiC derived from wood precursors. <i>Ceramics International</i> , 2016, 42, 16220-16229.	2.3	41
13	Crystallographic reorganization of the calcitic prismatic layer of oysters. <i>Journal of Structural Biology</i> , 2009, 167, 261-270.	1.3	39
14	Performance trends in wall-flow diesel particulate filters: Comparative analysis of their filtration efficiency and pressure drop. <i>Journal of Cleaner Production</i> , 2020, 260, 120863.	4.6	38
15	Stress measurement using area detectors: a theoretical and experimental comparison of different methods in ferritic steel using a portable X-ray apparatus. <i>Journal of Materials Science</i> , 2016, 51, 5343-5355.	1.7	37
16	Thermal conductivity of Fe graphitized wood derived carbon. <i>Materials and Design</i> , 2016, 99, 528-534.	3.3	36
17	Structural Evolution in Iron-Catalyzed Graphitization of Hard Carbons. <i>Chemistry of Materials</i> , 2021, 33, 3087-3097.	3.2	36
18	Reaction-formation mechanisms and microstructure evolution of biomorphic SiC. <i>Journal of Materials Science</i> , 2008, 43, 933-941.	1.7	35

#	ARTICLE	IF	CITATIONS
19	Precision and accuracy of stress measurement with a portable X-ray machine using an area detector. <i>Journal of Applied Crystallography</i> , 2017, 50, 131-144.	1.9	32
20	Biomorphic ceramics from wood-derived precursors. <i>International Materials Reviews</i> , 2017, 62, 465-485.	9.4	30
21	Electrochemical Energy Storage Applications of CVD Grown Niobium Oxide Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21423-21430.	4.0	29
22	Biological strategy for the fabrication of highly ordered aragonite helices: the microstructure of the cavolinoidean gastropods. <i>Scientific Reports</i> , 2016, 6, 25989.	1.6	29
23	Fabrication, chemical etching, and compressive strength of porous biomimetic SiC for medical implants. <i>Journal of Materials Research</i> , 2008, 23, 3247-3254.	1.2	28
24	Crystallographic texture in Al ₂ O ₃ /ZrO ₂ (Y ₂ O ₃) directionally solidified eutectics. <i>Journal of the European Ceramic Society</i> , 2008, 28, 2681-2686.	2.8	24
25	Interfacial characterization of silicon nitride/silicon nitride joints brazed using Cu-base active metal interlayers. <i>Ceramics International</i> , 2012, 38, 2793-2802.	2.3	23
26	New Bio-ceramization process applied to vegetable hierarchical structures for bone regeneration: an experimental model in sheep.. <i>Tissue Engineering - Part A</i> , 2014, 20, 131007215556003.	1.6	23
27	Performance of biomorphic Silicon Carbide as particulate filter in diesel boilers. <i>Journal of Environmental Management</i> , 2017, 203, 907-919.	3.8	22
28	Binder-free supercapacitor electrodes: Optimization of monolithic graphitized carbons by reflux acid treatment. <i>Fuel Processing Technology</i> , 2020, 199, 106279.	3.7	22
29	Porous Graphene-like Carbon from Fast Catalytic Decomposition of Biomass for Energy Storage Applications. <i>ACS Omega</i> , 2019, 4, 21446-21458.	1.6	21
30	Compressive strength degradation in ZrB ₂ -based ultra-high temperature ceramic composites. <i>Journal of the European Ceramic Society</i> , 2011, 31, 1345-1352.	2.8	20
31	Performance improvement in olive stone's combustion from a previous carbonization transformation. <i>Fuel</i> , 2018, 228, 254-262.	3.4	19
32	Thermal conductivity of wood-derived graphite and copper-graphite composites produced via electrodeposition. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 53, 182-189.	3.8	17
33	Modeling Macro-Sized, High Aspect Ratio Through-Hole Filling by Multi-Component Additive-Assisted Copper Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2013, 160, D3093-D3102.	1.3	16
34	Novel procedure for laboratory scale production of composite functional filaments for additive manufacturing. <i>Materials Today Communications</i> , 2020, 24, 101049.	0.9	16
35	Manganese Dioxide Supported on Porous Biomorphic Carbons as Hybrid Materials for Energy Storage Devices. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30890-30898.	4.0	15
36	Crystallography of the Calcitic Foliated-Like and Seminacre Microstructures of the Brachiopod <i>Novocrania</i> . <i>Crystal Growth and Design</i> , 2009, 9, 2464-2469.	1.4	14

#	ARTICLE	IF	CITATIONS
37	In situ imaging and strain determination during fracture in a SiC/SiC ceramic matrix composite. <i>Scripta Materialia</i> , 2013, 69, 497-500.	2.6	14
38	Sliding wear resistance of porous biomorphic sic ceramics. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016, 59, 26-31.	1.7	14
39	High-temperature thermal conductivity of biomorphic SiC/Si ceramics. <i>Journal of Materials Science</i> , 2017, 52, 10038-10046.	1.7	13
40	Fabrication and microstructure of directionally solidified SrCe _{1-x} Y _x O ₃ (x=0.1, 0.2) high temperature proton conductors. <i>Journal of the European Ceramic Society</i> , 2006, 26, 3705-3710.	2.8	12
41	Electrical and galvanomagnetic properties of biocarbon preforms of white pine wood. <i>Physics of the Solid State</i> , 2009, 51, 2247-2251.	0.2	12
42	Residual stresses in Al ₂ O ₃ -ZrO ₂ (3mol.% Y ₂ O ₃) directionally solidified eutectic ceramics as a function of temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 541, 61-66.	2.6	11
43	Environmentally Friendly Monolithic Highly-Porous Biocarbons as Binder-Free Supercapacitor Electrodes. <i>Reviews on Advanced Materials Science</i> , 2018, 55, 50-60.	1.4	10
44	Vegetable hierarchical structures as template for bone regeneration: New bio-ceramicization process for the development of a bone scaffold applied to an experimental sheep model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 600-611.	1.6	10
45	Ceria-based catalytic coatings on biomorphic silicon carbide: A system for soot oxidation with enhanced properties. <i>Chemical Engineering Journal</i> , 2021, 415, 128959.	6.6	9
46	Monolithic supports based on biomorphic SiC for the catalytic combustion of hydrogen. <i>RSC Advances</i> , 2016, 6, 66373-66384.	1.7	8
47	Effect of oxidation on the compressive strength of sintered SiC-fiber bonded ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 534, 394-399.	2.6	7
48	Effect of carbonization temperature on the microplasticity of wood-derived biocarbon. <i>Physics of the Solid State</i> , 2014, 56, 538-545.	0.2	7
49	Sliding wear resistance of biomorphic SiC ceramics. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 49, 327-333.	1.7	7
50	High-temperature mechanical properties of porous NaMgF ₃ derived from directionally solidified NaMgF ₃ -NaF eutectics. <i>Journal of the European Ceramic Society</i> , 2008, 28, 2451-2457.	2.8	6
51	Biomimetic Mineralization of Calcium Phosphate on a Functionalized Porous Silicon Carbide Biomaterial. <i>ChemPlusChem</i> , 2012, 77, 694-699.	1.3	6
52	Structure-mediated transition in the behavior of elastic and inelastic properties of beach tree bio-carbon. <i>Physics of the Solid State</i> , 2013, 55, 1884-1891.	0.2	6
53	Specific features of the electrical properties in partially graphitized porous biocarbons of beech wood. <i>Physics of the Solid State</i> , 2015, 57, 1746-1751.	0.2	6
54	Sliding wear resistance of sintered SiC-fiber bonded ceramics. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 49, 232-239.	1.7	6

#	ARTICLE	IF	CITATIONS
55	Flame confinement in biomass combustion systems for particles abatement. <i>Energy Conversion and Management</i> , 2022, 264, 115706.	4.4	6
56	Electrical properties of the SiC/Si composite and the biomorphic SiC ceramic fabricated from spanish beech wood. <i>Physics of the Solid State</i> , 2008, 50, 1819-1825.	0.2	5
57	Thermal conductivity of high-porosity heavily doped biomorphic silicon carbide prepared from sapele wood biocarbon. <i>Physics of the Solid State</i> , 2012, 54, 1732-1739.	0.2	5
58	Microstructure, elastic and inelastic properties of partially graphitized biomorphic carbons. <i>Physics of the Solid State</i> , 2015, 57, 586-591.	0.2	5
59	Blocking of grain reorientation in self-doped alumina materials. <i>Scripta Materialia</i> , 2011, 64, 517-520.	2.6	4
60	Thermal conductivity at the amorphous-nanocrystalline phase transition in beech wood biocarbon. <i>Physics of the Solid State</i> , 2014, 56, 1071-1080.	0.2	4
61	Microstructure and thermal conductivity of Si-Al-C-O fiber bonded ceramics joined to refractory metals. <i>Materials Letters</i> , 2020, 276, 128203.	1.3	4
62	Electrical resistivity and thermal conductivity of SiC/Si ecoceramics prepared from sapele wood biocarbon. <i>Physics of the Solid State</i> , 2012, 54, 2132-2141.	0.2	3
63	Strength and microplasticity of biocarbons prepared by carbonization in the presence of a catalyst. <i>Physics of the Solid State</i> , 2016, 58, 703-710.	0.2	3
64	Microestructura y comportamiento plÁstico de perovskitas conductoras protÁnicas de alta temperatura. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2005, 44, 347-351.	0.9	3
65	Heat capacity of Bio-SiC and SiC/Si ecoceramics prepared from white eucalyptus, beech, and sapele tree wood. <i>Physics of the Solid State</i> , 2013, 55, 454-460.	0.2	2
66	Thermopower of Bio-SiC and SiC/Si ecoceramics prepared from sapele tree wood. <i>Physics of the Solid State</i> , 2013, 55, 54-59.	0.2	2
67	High-Temperature Mechanical Behavior of Hard Ceramics. , 2014, , 321-343.		2
68	Thermal conductivity of partially graphitized biocarbon obtained by carbonization of medium-density fiberboard in the presence of a Ni-based catalyst. <i>Physics of the Solid State</i> , 2016, 58, 208-214.	0.2	2
69	Features of electrical properties of BE-C(Fe) biocarbons carbonized in the presence of an Fe-containing catalyst. <i>Physics of the Solid State</i> , 2017, 59, 703-709.	0.2	2
70	High temperature mechanical properties of polycrystalline Y2SiO5. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2022, 61, S60-S68.	0.9	2
71	Microstructure, elastic, and inelastic properties of biomorphic carbons carbonized using a Fe-containing catalyst. <i>Physics of the Solid State</i> , 2016, 58, 2481-2487.	0.2	1
72	High temperature compressive strength and creep behavior of Si Ti C O fiber-bonded ceramics. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4442-4448.	2.8	1

#	ARTICLE	IF	CITATIONS
73	High Temperature Creep Deformation of Al ₂ O ₃ -Based Eutectic Ceramics Grown by the Laser Heated Float Zone Method. Ceramic Engineering and Science Proceedings, 0, , 101-112.	0.1	1
74	Strength and thermal shock resistance of fiber-bonded Si-Al-Ce and Si-Ti-Ce ceramics. International Journal of Applied Ceramic Technology, 2022, 19, 1126-1135.	1.1	1
75	Iron Catalysis in Metal-Ion Batteries. Catalytic Science Series, 2021, , 253-297.	0.6	0
76	Porous Biomorphic SiC for Medical Implants Processed from Natural and Artificial Precursors. Ceramic Engineering and Science Proceedings, 0, , 203-214.	0.1	0