

# Joaquin Ramirez-Rico

## List of Publications by Year in descending order

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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	Strength and thermal shock resistance of fiber-bonded Si-Al-C-O and Si-Ti-C-O ceramics. International Journal of Applied Ceramic Technology, 2022, 19, 1126-1135.	1.1	1
2	High temperature mechanical properties of polycrystalline Y2SiO5. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2022, 61, S60-S68.	0.9	2
3	Iron-catalyzed graphitization for the synthesis of nanostructured graphitic carbons. Journal of Materials Chemistry A, 2022, 10, 4489-4516.	5.2	62
4	Flame confinement in biomass combustion systems for particles abatement. Energy Conversion and Management, 2022, 264, 115706.	4.4	6
5	Iron Catalysis in Metal-Ion Batteries. Catalytic Science Series, 2021, , 253-297.	0.6	0
6	Structural Evolution in Iron-Catalyzed Graphitization of Hard Carbons. Chemistry of Materials, 2021, 33, 3087-3097.	3.2	36
7	Ceria-based catalytic coatings on biomorphic silicon carbide: A system for soot oxidation with enhanced properties. Chemical Engineering Journal, 2021, 415, 128959.	6.6	9
8	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. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 600-611.	1.6	10
9	Binder-free supercapacitor electrodes: Optimization of monolithic graphitized carbons by reflux acid treatment. Fuel Processing Technology, 2020, 199, 106279.	3.7	22
10	Performance trends in wall-flow diesel particulate filters: Comparative analysis of their filtration efficiency and pressure drop. Journal of Cleaner Production, 2020, 260, 120863.	4.6	38
11	Microstructure and thermal conductivity of Si-Al-C-O fiber bonded ceramics joined to refractory metals. Materials Letters, 2020, 276, 128203.	1.3	4
12	An electrochemical evaluation of nitrogen-doped carbons as anodes for lithium ion batteries. Carbon, 2020, 164, 261-271.	5.4	53
13	Novel procedure for laboratory scale production of composite functional filaments for additive manufacturing. Materials Today Communications, 2020, 24, 101049.	0.9	16
14	Correlation of Structure and Performance of Hard Carbons as Anodes for Sodium Ion Batteries. Chemistry of Materials, 2019, 31, 7288-7299.	3.2	94
15	Porous Graphene-like Carbon from Fast Catalytic Decomposition of Biomass for Energy Storage Applications. ACS Omega, 2019, 4, 21446-21458.	1.6	21
16	Performance improvement in olive stone's combustion from a previous carbonization transformation. Fuel, 2018, 228, 254-262.	3.4	19
17	Environmentally Friendly Monolithic Highly-Porous Biocarbons as Binder-Free Supercapacitor Electrodes. Reviews on Advanced Materials Science, 2018, 55, 50-60.	1.4	10
18	Iron-Catalyzed Graphitic Carbon Materials from Biomass Resources as Anodes for Lithium-Ion Batteries. ChemSusChem, 2018, 11, 2776-2787.	3.6	81

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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	High-temperature thermal conductivity of biomorphic SiC/Si ceramics. <i>Journal of Materials Science</i> , 2017, 52, 10038-10046.	1.7	13
21	Biomorphic ceramics from wood-derived precursors. <i>International Materials Reviews</i> , 2017, 62, 465-485.	9.4	30
22	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
23	Performance of biomorphic Silicon Carbide as particulate filter in diesel boilers. <i>Journal of Environmental Management</i> , 2017, 203, 907-919.	3.8	22
24	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
25	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
26	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
27	Thermal conductivity of Fe graphitized wood derived carbon. <i>Materials and Design</i> , 2016, 99, 528-534.	3.3	36
28	Thermal conductivity of porous biomorphic SiC derived from wood precursors. <i>Ceramics International</i> , 2016, 42, 16220-16229.	2.3	41
29	Monolithic supports based on biomorphic SiC for the catalytic combustion of hydrogen. <i>RSC Advances</i> , 2016, 6, 66373-66384.	1.7	8
30	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
31	Electrochemical Energy Storage Applications of CVD Grown Niobium Oxide Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 21423-21430.	4.0	29
32	Manganese Dioxide Supported on Porous Biomorphic Carbons as Hybrid Materials for Energy Storage Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 30890-30898.	4.0	15
33	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
34	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
35	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
36	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

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37	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
38	Sliding wear resistance of biomorphic SiC ceramics. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 49, 327-333.	1.7	7
39	Microstructure, elastic and inelastic properties of partially graphitized biomorphic carbons. <i>Physics of the Solid State</i> , 2015, 57, 586-591.	0.2	5
40	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
41	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
42	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
43	High-Temperature Mechanical Behavior of Hard Ceramics. , 2014, , 321-343.		2
44	Characterization of porous graphitic monoliths from pyrolyzed wood. <i>Journal of Materials Science</i> , 2014, 49, 7688-7696.	1.7	41
45	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
46	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
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	Biomimetic Mineralization of Calcium Phosphate on a Functionalized Porous Silicon Carbide Biomaterial. <i>ChemPlusChem</i> , 2012, 77, 694-699.	1.3	6
56	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
57	Effect of oxidation on the compressive strength of sintered SiC-fiber bonded ceramics. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 534, 394-399.	2.6	7
58	Residual stresses in Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> (3mol.% Y <sub>2</sub> O <sub>3</sub> ) directionally solidified eutectic ceramics as a function of temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 541, 61-66.	2.6	11
59	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
60	Blocking of grain reorientation in self-doped alumina materials. <i>Scripta Materialia</i> , 2011, 64, 517-520.	2.6	4
61	Compressive strength degradation in ZrB <sub>2</sub> -based ultra-high temperature ceramic composites. <i>Journal of the European Ceramic Society</i> , 2011, 31, 1345-1352.	2.8	20
62	Nacre and false nacre (foliated aragonite) in extant monoplacophorans (=Tryblidiida: Mollusca). <i>Die Naturwissenschaften</i> , 2009, 96, 111-122.	0.6	46
63	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
64	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
65	Crystallographic reorganization of the calcitic prismatic layer of oysters. <i>Journal of Structural Biology</i> , 2009, 167, 261-270.	1.3	39
66	Reaction-formation mechanisms and microstructure evolution of biomorphic SiC. <i>Journal of Materials Science</i> , 2008, 43, 933-941.	1.7	35
67	High-temperature mechanical properties of porous NaMgF <sub>3</sub> derived from directionally solidified NaMgF <sub>3</sub> -NaF eutectics. <i>Journal of the European Ceramic Society</i> , 2008, 28, 2451-2457.	2.8	6
68	Crystallographic texture in Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> (Y <sub>2</sub> O <sub>3</sub> ) directionally solidified eutectics. <i>Journal of the European Ceramic Society</i> , 2008, 28, 2681-2686.	2.8	24
69	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
70	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
71	High-temperature plastic behaviour of Al <sub>2</sub> O <sub>3</sub> -Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> directionally solidified eutectics. <i>Acta Materialia</i> , 2006, 54, 3107-3116.	3.8	45
72	Fabrication and microstructure of directionally solidified SrCe <sub>1-x</sub> Y <sub>x</sub> O <sub>3-<math>\delta</math></sub> (x=0.1, 0.2) high temperature proton conductors. <i>Journal of the European Ceramic Society</i> , 2006, 26, 3705-3710.	2.8	12

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73	Organization pattern of nacre in Pteriidae (Bivalvia: Mollusca) explained by crystal competition. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1329-1337.	1.2	92
74	Microestructura y comportamiento plástico de perovskitas conductoras protÁ³nicas de alta temperatura. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2005, 44, 347-351.	0.9	3
75	High Temperature Creep Deformation of Al <sub>2</sub> O <sub>3</sub> -Based Eutectic Ceramics Grown by the Laser Heated Float Zone Method. Ceramic Engineering and Science Proceedings, 0, , 101-112.	0.1	1
76	Porous Biomorphic SiC for Medical Implants Processed from Natural and Artificial Precursors. Ceramic Engineering and Science Proceedings, 0, , 203-214.	0.1	0