

Vicente Jerome

List of Publications by Year in descending order

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39
papers

993
citations

516710

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434195

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39
all docs

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docs citations

39
times ranked

1154
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro- and nano-X-ray computed-tomography: A step forward in the characterization of the pore network of a leached cement paste. <i>Cement and Concrete Research</i> , 2015, 67, 138-147.	11.0	204
2	An image processing technique for automatically detecting forest fire. <i>International Journal of Thermal Sciences</i> , 2002, 41, 1113-1120.	4.9	81
3	Open Celled Material Structural Properties Measurement: From Morphology To Transport Properties. <i>Materials Transactions</i> , 2006, 47, 2195-2202.	1.2	67
4	X-ray tomography investigations of mono-sized sphere packing structures in cylindrical containers. <i>Powder Technology</i> , 2017, 318, 471-483.	4.2	63
5	Influence of evaporation rate on cracksâ€™ formation of a drying drop of whole blood. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 432, 139-146.	4.7	54
6	Volume Image Analysis of Ceramic Sponges. <i>Chemical Engineering and Technology</i> , 2008, 31, 307-314.	1.5	48
7	Determination of effective thermal conductivity from geometrical properties: Application to open cell foams. <i>International Journal of Thermal Sciences</i> , 2014, 81, 13-28.	4.9	48
8	Real-time identification of smoke images by clustering motions on a fractal curve with a temporal embedding method. <i>Optical Engineering</i> , 2001, 40, 554.	1.0	45
9	Environmental exposure to TiO ₂ nanomaterials incorporated in building material. <i>Environmental Pollution</i> , 2017, 220, 1160-1170.	7.5	44
10	Microstructure and Transport Properties of Cellular Materials: Representative Volume Element. <i>Advanced Engineering Materials</i> , 2009, 11, 805-810.	3.5	43
11	Thermal Conductivity of Very Porous Kaolinâ€Based Ceramics. <i>Journal of the American Ceramic Society</i> , 2014, 97, 938-944.	3.8	40
12	Representative elementary volumes required to characterize the normal spectral emittance of silicon carbide foams used as volumetric solar absorbers. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 118-129.	4.8	33
13	A simple expression for the normal spectral emittance of open-cell foams composed of optically thick and smooth struts. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 189, 329-338.	2.3	29
14	CHARACTERIZATION (TWO-DIMENSIONAL - THREE-DIMENSIONAL) OF CERAMIC MICROFILTRATION MEMBRANE BY SYNCHROTRON RADIATION: NEW AND ABRADED MEMBRANES. <i>Journal of Porous Media</i> , 2013, 16, 537-545.	1.9	22
15	Characterization and functionalization by solâ€gel route of SiC foams. <i>Journal of the European Ceramic Society</i> , 2014, 34, 3479-3487.	5.7	21
16	Separation of particles from hot gases using metallic foams. <i>Journal of Materials Processing Technology</i> , 2009, 209, 3859-3868.	6.3	17
17	Geometrical Tortuosity 3D Calculations in Infiltrated Aluminium Cellular Materials. , 2014, 4, 145-150.		16
18	Pebble bed structures in the vicinity of concave and convex walls. <i>Fusion Engineering and Design</i> , 2015, 98-99, 1855-1858.	1.9	15

#	ARTICLE	IF	CITATIONS
19	3d tomography analysis of the packing structure of spherical particles in slender prismatic containers. International Journal of Materials Research, 2020, 111, 65-77.	0.3	15
20	Hygromorphic characterization of softwood under high resolution X-ray tomography for hygrothermal simulation. Heat and Mass Transfer, 2018, 54, 2761-2769.	2.1	11
21	EVOLUTION OF THE HOMOGENIZED VOLUMETRIC RADIATIVE PROPERTIES OF A FAMILY OF $\hat{\pm}$ -SiC FOAMS WITH GROWING NOMINAL PORE DIAMETER. Journal of Porous Media, 2015, 18, 1031-1045.	1.9	10
22	Numerical prediction of the radiative behavior of metallic foams from the microscopic to macroscopic scale. Journal of Physics: Conference Series, 2012, 369, 012003.	0.4	8
23	Impact of different confluent fluid streams viscosities on interconnected porous static mixer device. Chemical Engineering Science, 2012, 72, 172-178.	3.8	7
24	Tuning the spectral emittance of $\hat{\pm}$ -SiC open-cell foams up to 1300 K with their macro porosity. AIP Advances, 2016, 6, 065226.	1.3	6
25	Fast Granulometry Operator for the 3D Identification of Cell Structures. Fundamenta Informaticae, 2017, 155, 363-372.	0.4	6
26	Prediction of the radiative properties of reconstructed alpha-SiC foams used for concentrated solar applications. Materials Research Society Symposia Proceedings, 2013, 1545, 1.	0.1	5
27	Assessment of Bone Microarchitecture in Fresh Cadaveric Human Femurs: What Could Be the Clinical Relevance of Ultra-High Field MRI. Diagnostics, 2022, 12, 439.	2.6	5
28	$\hat{\pm}$ -CT-Based Analysis of the Solid Phase in Foams: Cell Wall Corrugation and other Microscopic Features. Microscopy and Microanalysis, 2015, 21, 1361-1371.	0.4	4
29	Membrane characterisation from the support to the skin layer: Application to silicon carbide (SiC) membranes. Journal of the European Ceramic Society, 2022, 42, 3759-3769.	5.7	4
30	A numerical method based on domain decomposition to solve coupled conduction-radiation physics using parallel computing within large porous media. Journal of Physics: Conference Series, 2021, 2116, 012057.	0.4	4
31	The Very First Cry: A Multidisciplinary Approach toward a Model. Annals of Otology, Rhinology and Laryngology, 2012, 121, 821-826.	1.1	3
32	Influence of pore and strut shape on open cell metal foam bulk properties. , 2012, , .		3
33	Mechanisms limiting the release of TiO_2 nanomaterials during photocatalytic cement alteration: the role of surface charge and porous network morphology. Environmental Science: Nano, 2019, 6, 624-634.	4.3	3
34	Volumetric segmentation of trabecular bone into rods and plates: a new method based on local shape classification. Proceedings of SPIE, 2010, , .	0.8	2
35	Network-Based Modeling of Transport Phenomena in Solid and Fluid Phases of Open-Cell Foams: Construction of Graphs. Advanced Engineering Materials, 2020, 22, 1901468.	3.5	2
36	Identification of the Radiative Properties of $\hat{\pm}$ -SiC Foams Realistically Designed With a Numerical Generator. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
37	COCURRENT GAS-LIQUID FLOW IN METAL FOAM: AN EXPERIMENTAL INVESTIGATION OF PRESSURE GRADIENT. Journal of Porous Media, 2010, 13, 497-510.	1.9	2
38	Towards the development of simple methods for determining normal absorptances of open-cell foams based on opaque materials. Journal of Physics: Conference Series, 2016, 676, 012009.	0.4	1
39	From 2D to 3D Characterization of Ceramic Membranes. Procedia Engineering, 2012, 44, 517-520.	1.2	0