

Giorgio Pia

List of Publications by Year in descending order

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61
papers

1,221
citations

331259

21
h-index

377514

34
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61
all docs

61
docs citations

61
times ranked

927
citing authors

#	ARTICLE	IF	CITATIONS
1	Hardening of Nanoporous Au Induced by Exposure to Different Gaseous Environments. <i>Materials</i> , 2022, 15, 2718.	1.3	0
2	Estimation of Nanoporous Au Young's Modulus from Serial Block Face-SEM 3D-Characterisation. <i>Materials</i> , 2022, 15, 3644.	1.3	0
3	Stable CsPbBr ₃ Nanocrystals Decorated Nanoporous Gold for Optoelectronic Applications. <i>Crystals</i> , 2022, 12, 863.	1.0	1
4	Weathering of earth-painted surfaces: Environmental monitoring and artificial aging. <i>Construction and Building Materials</i> , 2022, 344, 128193.	3.2	3
5	Coupling of mechanical deformation and reaction in mechanochemical transformations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 229-245.	1.3	15
6	Fabrication of Nanoporous Al by Vapor-Phase Dealloying: Morphology Features, Mechanical Properties and Model Predictions. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6639.	1.3	10
7	Morphology influence on elastic deformation behaviour of high porous ceramics. Experimental and phenomenological model predictions. <i>Ceramics International</i> , 2021, 47, 23368-23375.	2.3	3
8	Statistical study on the effects of heterogeneous deformation and grain boundary character on hydrogen-induced crack initiation and propagation in twinning-induced plasticity steels. <i>Corrosion Science</i> , 2021, 192, 109796.	3.0	15
9	Porosity effects on water vapour permeability in earthen materials: Experimental evidence and modelling description. <i>Journal of Building Engineering</i> , 2020, 27, 100987.	1.6	4
10	Grain boundary design based on fractal theory to improve intergranular corrosion resistance of TWIP steels. <i>Materials and Design</i> , 2020, 185, 108253.	3.3	21
11	Milling Dynamics and Propagation of Mechanically Activated Self-Sustaining Reactions. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-10.	1.0	1
12	Solid Particle Erosion of a Limestone Target Surface under Controlled Conditions. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-8.	1.0	2
13	From nature geometry to material design: Advanced fractal nature analysis for predicting experimental elastic properties. <i>Ceramics International</i> , 2020, 46, 23947-23955.	2.3	6
14	Microscopic kinetic information from Ag oxalate mechanochemistry in ball drop experiments. <i>Materials Letters</i> , 2020, 267, 127525.	1.3	5
15	A mapping approach to pattern formation in the early stages of mechanical alloying. <i>Philosophical Magazine Letters</i> , 2019, 99, 192-198.	0.5	2
16	Coarsening of nanoporous Au during catalytic CO oxidation. <i>Materials Letters</i> , 2019, 253, 159-161.	1.3	2
17	Advances in Modelling of Heat and Mass Transfer in Porous Materials. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-2.	1.0	3
18	Fractal and multifractal analysis of fracture surfaces caused by hydrogen embrittlement in high-Mn twinning/transformation-induced plasticity steels. <i>Applied Surface Science</i> , 2019, 470, 870-881.	3.1	25

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19	Stiffening of nanoporous Au induced by water physisorption. <i>Materials Letters</i> , 2018, 220, 116-118.	1.3	0
20	Bending strength of porous ceramics tiles: Bounds and estimates of effective properties of an Intermingled Fractal Units™ model. <i>Ceramics International</i> , 2018, 44, 10241-10248.	2.3	9
21	Nanoporous Au foams: Variation of effective Young's modulus with ligament size. <i>Scripta Materialia</i> , 2018, 144, 22-26.	2.6	20
22	Ag surface segregation in nanoporous Au catalysts during CO oxidation. <i>Scientific Reports</i> , 2018, 8, 15208.	1.6	16
23	Water Absorption Properties of Cement Pastes: Experimental and Modelling Inspections. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-9.	1.0	9
24	Microstructural evolution in porous ceramics subjected to freezing-thawing cycles: Modelling experimental outcomes. <i>Ceramics International</i> , 2018, 44, 16992-16998.	2.3	4
25	Thermal behaviour of clay ceramics obtained by Spark Plasma Sintering: Is fractal geometry a new possible road to design porous structures?. <i>Ceramics International</i> , 2018, 44, 21710-21716.	2.3	6
26	Grain size reduction in Cu powders subjected to ball milling and ball drop experiments. <i>Materials Letters</i> , 2018, 232, 33-35.	1.3	4
27	Heat transfer in high porous alumina: Experimental data interpretation by different modelling approaches. <i>Ceramics International</i> , 2017, 43, 9184-9190.	2.3	13
28	Hardening of nanoporous Au foams induced by surface chemistry. <i>Materials Letters</i> , 2017, 196, 332-334.	1.3	4
29	Coatings™s influence on water vapour permeability of porous stones typically used in cultural heritage of Mediterranean area: Experimental tests and model controlling procedure. <i>Progress in Organic Coatings</i> , 2017, 102, 239-246.	1.9	12
30	Differential damage in the semi-confined Munazio Ireno cubicle in Cagliari (Sardinia): a correlation between damage and microclimate. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	3
31	Gyroidal structures as approximants to nanoporous metal foams: clues from mechanical properties. <i>Journal of Materials Science</i> , 2017, 52, 1106-1122.	1.7	22
32	Pore Size Distribution Influence on Suction Properties of Calcareous Stones in Cultural Heritage: Experimental Data and Model Predictions. <i>Advances in Materials Science and Engineering</i> , 2016, 2016, 1-10.	1.0	4
33	High porous yttria-stabilized zirconia with aligned pore channels: Morphology directionality influence on heat transfer. <i>Ceramics International</i> , 2016, 42, 11674-11681.	2.3	23
34	Fluid flow in complex porous media: Experimental data and IFU model predictions for water vapour permeability. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 35, 283-290.	2.1	24
35	Thermally and catalytically induced coarsening of nanoporous Au. <i>Materials Letters</i> , 2016, 183, 114-116.	1.3	11
36	Pore size distribution and porosity influence on Sorptivity of ceramic tiles: From experimental data to fractal modelling. <i>Ceramics International</i> , 2016, 42, 9583-9590.	2.3	30

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37	Thermal conductivity of porous stones treated with UV light-cured hybrid organic-inorganic methacrylic-based coating. Experimental and fractal modeling procedure. <i>Progress in Organic Coatings</i> , 2016, 94, 105-115.	1.9	21
38	Thermal properties of porous stones in cultural heritage: Experimental findings and predictions using an intermingled fractal units model. <i>Energy and Buildings</i> , 2016, 118, 232-239.	3.1	14
39	Porosity and pore size distribution influence on thermal conductivity of yttria-stabilized zirconia: Experimental findings and model predictions. <i>Ceramics International</i> , 2016, 42, 5802-5809.	2.3	52
40	Application of a Novel Method for a Simulation of Conductivity of a Building Material in a Climatic Chamber. <i>Energy Procedia</i> , 2015, 81, 995-1004.	1.8	2
41	Mechanical Properties of Nanoporous Au: From Empirical Evidence to Phenomenological Modeling. <i>Metals</i> , 2015, 5, 1665-1694.	1.0	10
42	Porous ceramic materials by pore-forming agent method: An intermingled fractal units analysis and procedure to predict thermal conductivity. <i>Ceramics International</i> , 2015, 41, 6350-6357.	2.3	50
43	Mechanical behavior of nanoporous Au with fine ligaments. <i>Chemical Physics Letters</i> , 2015, 635, 35-39.	1.2	7
44	Coarsening of nanoporous Au: Relationship between structure and mechanical properties. <i>Acta Materialia</i> , 2015, 99, 29-38.	3.8	39
45	On the elastic deformation properties of porous ceramic materials obtained by pore-forming agent method. <i>Ceramics International</i> , 2015, 41, 11097-11105.	2.3	45
46	A phenomenological approach to yield strength in nanoporous metal foams. <i>Scripta Materialia</i> , 2015, 103, 26-29.	2.6	8
47	Nanoporous Au: Statistical analysis of morphological features and evaluation of their influence on the elastic deformation behavior by phenomenological modeling. <i>Acta Materialia</i> , 2015, 85, 250-260.	3.8	37
48	Case studies on the influence of microstructure voids on thermal conductivity in fractal porous media. <i>Case Studies in Thermal Engineering</i> , 2014, 2, 8-13.	2.8	32
49	An intermingled fractal units model to evaluate pore size distribution influence on thermal conductivity values in porous materials. <i>Applied Thermal Engineering</i> , 2014, 65, 330-336.	3.0	93
50	Kinetics of nanoporous Au formation by chemical dealloying. <i>Scripta Materialia</i> , 2014, 76, 57-60.	2.6	15
51	An intermingled fractal units model and method to predict permeability in porous rock. <i>International Journal of Engineering Science</i> , 2014, 75, 31-39.	2.7	73
52	Predicting capillary absorption of porous stones by a procedure based on an intermingled fractal units model. <i>International Journal of Engineering Science</i> , 2014, 82, 196-204.	2.7	41
53	Surface stresses and Young's modulus in nanoporous Au foams. <i>Scripta Materialia</i> , 2014, 84-85, 55-58.	2.6	7
54	On the elastic deformation behavior of nanoporous metal foams. <i>Scripta Materialia</i> , 2013, 69, 781-784.	2.6	31

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55	A geometrical fractal model for the porosity and thermal conductivity of insulating concrete. <i>Construction and Building Materials</i> , 2013, 44, 551-556.	3.2	72
56	Intermingled fractal units model and electrical equivalence fractal approach for prediction of thermal conductivity of porous materials. <i>Applied Thermal Engineering</i> , 2013, 61, 186-192.	3.0	46
57	A geometrical fractal model for the porosity and permeability of hydraulic cement pastes. <i>Construction and Building Materials</i> , 2010, 24, 1843-1847.	3.2	67
58	Fractal modelling of medium- to high porosity SiC ceramics. <i>Journal of the European Ceramic Society</i> , 2008, 28, 2809-2814.	2.8	37
59	A fractal model of the porous microstructure of earth-based materials. <i>Construction and Building Materials</i> , 2008, 22, 1607-1613.	3.2	48
60	Surface wear resistance of chemically or thermally stabilized earth-based materials. <i>Materials and Structures/Materiaux Et Constructions</i> , 2008, 41, 751-758.	1.3	27
61	A fuzzy model for classifying mechanical properties of vesicular basalt used in prehistoric buildings. <i>Materials Characterization</i> , 2008, 59, 606-612.	1.9	15