

Jean-Marc Tulliani

List of Publications by Year in descending order

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107
papers

3,316
citations

172207

29
h-index

161609

54
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108
all docs

108
docs citations

108
times ranked

3478
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Self-Healing Concrete for Damage Management of Structures. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800074.	1.9	412
2	Influence of carbon nanotubes structure on the mechanical behavior of cement composites. <i>Composites Science and Technology</i> , 2009, 69, 1985-1990.	3.8	380
3	Experimental characterization of the self-healing capacity of cement based materials and its effects on the material performance: A state of the art report by COST Action SARCOS WG2. <i>Construction and Building Materials</i> , 2018, 167, 115-142.	3.2	183
4	Improvement in electromagnetic interference shielding effectiveness of cement composites using carbonaceous nano/micro inerts. <i>Construction and Building Materials</i> , 2015, 85, 208-216.	3.2	109
5	Room temperature ammonia sensors based on zinc oxide and functionalized graphite and multi-walled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2011, 152, 144-154.	4.0	98
6	Carbon-Based Materials for Humidity Sensing: A Short Review. <i>Micromachines</i> , 2019, 10, 232.	1.4	98
7	High performance self-consolidating cementitious composites by using micro carbonized bamboo particles. <i>Materials & Design</i> , 2015, 76, 223-229.	5.1	88
8	Geopolymer technology for application-oriented dense and lightened materials. Elaboration and characterization. <i>Ceramics International</i> , 2015, 41, 12967-12979.	2.3	85
9	Carbonized nano/microparticles for enhanced mechanical properties and electromagnetic interference shielding of cementitious materials. <i>Frontiers of Structural and Civil Engineering</i> , 2016, 10, 209-213.	1.2	79
10	A review on aqueous gelcasting: A versatile and low-toxic technique to shape ceramics. <i>Ceramics International</i> , 2019, 45, 9653-9673.	2.3	61
11	Addressing the need for standardization of test methods for self-healing concrete: an inter-laboratory study on concrete with macrocapsules. <i>Science and Technology of Advanced Materials</i> , 2020, 21, 661-682.	2.8	50
12	Development and mechanical characterization of novel ceramic foams fabricated by gel-casting. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1567-1576.	2.8	49
13	In vitro toxicity of carbon nanotubes, nano-graphite and carbon black, similar impacts of acid functionalization. <i>Toxicology in Vitro</i> , 2015, 30, 476-485.	1.1	49
14	Waste Coffee Ground Biochar: A Material for Humidity Sensors. <i>Sensors</i> , 2019, 19, 801.	2.1	49
15	Semiclosed-Cell Mullite Foams: Preparation and Macro- and Micromechanical Characterization. <i>Journal of the American Ceramic Society</i> , 1999, 82, 961-968.	1.9	47
16	Sulfate attack of concrete building foundations induced by sewage waters. <i>Cement and Concrete Research</i> , 2002, 32, 843-849.	4.6	47
17	Type of materials, pyrolysis conditions, carbon content and size dimensions: The parameters that influence the mechanical properties of biochar cement-based composites. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 103, 102261.	2.1	45
18	Elaboration and characterization of novel humidity sensor based on micro-carbonized bamboo particles. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 1251-1256.	4.0	44

#	ARTICLE	IF	CITATIONS
19	Influence of the dopants on the electrical resistance of hematite-based humidity sensors. <i>Ceramics International</i> , 2005, 31, 507-514.	2.3	42
20	Preparation and mechanical characterization of dense and porous zirconia produced by gel casting with gelatin as a gelling agent. <i>Ceramics International</i> , 2009, 35, 2481-2491.	2.3	39
21	Setup of Extruded Cementitious Hollow Tubes as Containing/Releasing Devices in Self-Healing Systems. <i>Materials</i> , 2015, 8, 1897-1923.	1.3	39
22	Experimental analysis of self-healing cement-based materials incorporating extruded cementitious hollow tubes. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 2633-2652.	1.4	39
23	Alkali-activation of marble sludge: Influence of curing conditions and waste glass addition. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3776-3787.	2.8	38
24	Environmentally-Friendly Dense and Porous Geopolymers Using Fly Ash and Rice Husk Ash as Raw Materials. <i>Materials</i> , 2016, 9, 466.	1.3	37
25	New cementitious composite building material with enhanced toughness. <i>Theoretical and Applied Fracture Mechanics</i> , 2015, 76, 67-74.	2.1	36
26	Iron-oxide nanoparticles supported on sepiolite as a novel humidity sensor. <i>Journal of the European Ceramic Society</i> , 2007, 27, 1983-1989.	2.8	35
27	Gelcasting of dense and porous ceramics by using a natural gelatine. <i>Journal of Porous Materials</i> , 2009, 16, 393-400.	1.3	34
28	Experimental Investigation on Use of Wheat Straw Ash and Bentonite in Self-Compacting Cementitious System. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-11.	1.0	33
29	Sealing efficiency of cement-based materials containing extruded cementitious capsules. <i>Construction and Building Materials</i> , 2020, 251, 119039.	3.2	31
30	Mechanical properties of cellular ceramics obtained by gel casting: Characterization and modeling. <i>Journal of the European Ceramic Society</i> , 2009, 29, 2979-2989.	2.8	30
31	Behaviour of Pre-Cracked Self-Healing Cementitious Materials under Static and Cyclic Loading. <i>Materials</i> , 2020, 13, 1149.	1.3	29
32	Preparation and Characterization of Polypropylene/Carbon Nanotubes (PP/CNTs) Nanocomposites as Potential Strain Gauges for Structural Health Monitoring. <i>Nanomaterials</i> , 2020, 10, 814.	1.9	29
33	Evaluation of Methodologies for Assessing Self-Healing Performance of Concrete with Mineral Expansive Agents: An Interlaboratory Study. <i>Materials</i> , 2021, 14, 2024.	1.3	29
34	Valorisation of alumino-silicate stone muds: From wastes to source materials for innovative alkali-activated materials. <i>Cement and Concrete Composites</i> , 2017, 83, 251-262.	4.6	28
35	Environmental Technology, Materials Science, Architectural Design, and Real Estate Market Evaluation: A Multidisciplinary Approach for Energy-Efficient Buildings. <i>Journal of Urban Technology</i> , 2013, 20, 57-80.	2.5	25
36	Biological response to purification and acid functionalization of carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	24

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37	Novel calcium phosphate/PCL graded samples: Design and development in view of biomedical applications. <i>Materials Science and Engineering C</i> , 2019, 97, 336-346.	3.8	24
38	Materials development for CO-detection with improved selectivity through catalytic activation. <i>Sensors and Actuators B: Chemical</i> , 2006, 118, 121-128.	4.0	23
39	Improvements in self-consolidating cementitious composites by using micro carbonized aggregates. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 75-83.	0.5	23
40	New self-healing techniques for cement-based materials. <i>Procedia Structural Integrity</i> , 2017, 3, 253-260.	0.3	23
41	Biochars as Innovative Humidity Sensing Materials. <i>Chemosensors</i> , 2017, 5, 35.	1.8	23
42	Green Synthesis of Metal Oxides Semiconductors for Gas Sensing Applications. <i>Sensors</i> , 2022, 22, 4669.	2.1	23
43	Organic-inorganic material for the consolidation of plaster. <i>Journal of Cultural Heritage</i> , 2011, 12, 364-371.	1.5	22
44	Carbonaceous admixtures in cementitious building materials: Effect of particle size blending on rheology, packing, early age properties and processing energy demand. <i>Science of the Total Environment</i> , 2022, 807, 150884.	3.9	22
45	Electrical characterization of room temperature humidity sensors in La _{0.8} Sr _{0.2} Fe _{1-x} Cu _x O ₃ (x= 0, 0.05). <i>Tj ETQq1 1,0.784314 rgBT /C</i> 2.3 21	2.3	21
46	Determining the Surfactant Consistent with Concrete in order to Achieve the Maximum Possible Dispersion of Multiwalled Carbon Nanotubes in Keeping the Plain Concrete Properties. <i>Journal of Nanotechnology</i> , 2016, 2016, 1-9.	1.5	21
47	Strontium-Doped Hematite as a Possible Humidity Sensing Material for Soil Water Content Determination. <i>Sensors</i> , 2013, 13, 12070-12092.	2.1	20
48	Elaboration and characterization of modified sepiolites and their humidity sensing features for environmental monitoring. <i>Applied Clay Science</i> , 2015, 115, 165-173.	2.6	20
49	3D printing of dense and porous alkali-activated refractory wastes via Direct Ink Writing (DIW). <i>Journal of the European Ceramic Society</i> , 2021, 41, 3798-3808.	2.8	20
50	Thermal annealing of carbon nanotubes reveals a toxicological impact of the structural defects. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	19
51	Recycled Mortars with C&D Waste. <i>Procedia Structural Integrity</i> , 2016, 2, 2896-2904.	0.3	18
52	Robocasting of Single and Multi-Functional Calcium Phosphate Scaffolds and Its Hybridization with Conventional Techniques: Design, Fabrication and Characterization. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8677.	1.3	18
53	UV-Printable and Flexible Humidity Sensors Based on Conducting/Insulating Semi-Interpenetrated Polymer Networks. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700161.	1.7	17
54	Dilatometry as a tool to study a new synthesis for calcium hexaluminate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003, 72, 1135-1140.	2.0	16

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55	Role of Natural Stone Wastes and Minerals in the Alkali Activation Process: A Review. <i>Materials</i> , 2020, 13, 2284.	1.3	16
56	Alkali-activated refractory wastes exposed to high temperatures: development and characterization. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3314-3326.	2.8	16
57	Synthesis of ZnO Nanoparticles onto Sepiolite Needles and Determination of Their Sensitivity toward Humidity, NO ₂ and H ₂ . <i>Journal of Materials Science and Technology</i> , 2016, 32, 573-582.	5.6	15
58	A study of the main factors affecting the performance of self-sensing concrete. <i>Advances in Cement Research</i> , 2017, 29, 216-226.	0.7	15
59	Gelcasting and sintering of hydroxyapatite materials: Effect of particle size and Ca/P ratio on microstructural, mechanical and biological properties. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7301-7310.	2.8	14
60	Nanostructured Metal Oxide Semiconductors towards Greenhouse Gas Detection. <i>Chemosensors</i> , 2022, 10, 57.	1.8	14
61	New NO _x sensors based on hematite doped with alkaline and alkaline-earth elements. <i>Journal of the European Ceramic Society</i> , 2011, 31, 2357-2364.	2.8	13
62	Sensing characteristics of hematite and barium oxide doped hematite films towards ozone and nitrogen dioxide. <i>Procedia Engineering</i> , 2011, 25, 219-222.	1.2	12
63	Diagnostic application of nonlinear ultrasonics to characterize degradation by expansive salts in masonry systems. <i>NDT and E International</i> , 2013, 55, 57-63.	1.7	12
64	Imperfection Sensitivity of Nonlinear Vibration of Curved Single-Walled Carbon Nanotubes Based on Nonlocal Timoshenko Beam Theory. <i>Materials</i> , 2016, 9, 786.	1.3	11
65	Robocasting of dense zirconia parts using commercial yttria-stabilized zirconia granules and ultrafine particles. Paste preparation, printing, mechanical properties. <i>Ceramics International</i> , 2022, 48, 1936-1946.	2.3	11
66	The reinforcement of ancient timber-joints with carbon nano-composites. <i>Meccanica</i> , 2013, 48, 1925-1935.	1.2	10
67	Epoxy monomers consolidant for lime plaster cured via a redox activated cationic polymerization. <i>Journal of Cultural Heritage</i> , 2014, 15, 595-601.	1.5	10
68	Barium hexaferrite thick-films for ozone detection at low temperature. <i>Solid State Ionics</i> , 2018, 320, 24-32.	1.3	10
69	Ammonia selective sensors based on cobalt spinel prepared by combustion synthesis. <i>Solid State Ionics</i> , 2019, 337, 91-100.	1.3	10
70	Semiconducting Metal Oxides Nanocomposites for Enhanced Detection of Explosive Vapors. <i>Ceramics</i> , 2018, 1, 98-119.	1.0	9
71	Rice husk ash as a new humidity sensing material and its aging behavior. <i>Sensors and Actuators B: Chemical</i> , 2021, 328, 129049.	4.0	9
72	Durability of self-healing cementitious systems with encapsulated polyurethane evaluated with a new pre-standard test method. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, .	1.3	9

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73	A visible and long-wavelength photocured epoxy coating for stone protection. <i>Journal of Cultural Heritage</i> , 2014, 15, 250-257.	1.5	8
74	An Acrylic Latex Filled with Zinc Oxide by Miniemulsion Polymerization as a Protective Coating for Stones. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 1352-1361.	1.7	8
75	A Novel Life Prediction Model Based on Monitoring Electrical Properties of Self-Sensing Cement-Based Materials. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5080.	1.3	8
76	Crack path and fracture surface modifications in cement composites. <i>Frattura Ed Integrita Strutturale</i> , 2016, , .	0.5	8
77	Mortar Made of Recycled Sand from C&D. <i>Procedia Engineering</i> , 2015, 109, 240-247.	1.2	7
78	W-doped indium oxide synthesized via hydrothermal route for low-temperature ozone sensing. <i>Solid State Ionics</i> , 2020, 347, 115271.	1.3	7
79	Damage Management of Concrete Structures with Engineered Cementitious Materials and Natural Fibers: A Review of Potential Uses. <i>Sustainability</i> , 2022, 14, 3917.	1.6	7
80	Dense and Cellular Zirconia Produced by Gel Casting with Agar: Preparation and High Temperature Characterization. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-11.	1.5	6
81	Diagnosis of the surface layer damage in a 1960s reinforced concrete building. <i>Case Studies in Construction Materials</i> , 2014, 1, 77-82.	0.8	6
82	New ZnO-Based Glass Ceramic Sensor for H ₂ and NO ₂ Detection. <i>Sensors</i> , 2017, 17, 2538.	2.1	6
83	An investigation of the beneficial effects of adding carbon nanotubes to standard injection grout. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 119-128.	1.7	6
84	Fabrication of dense and porous biphasic calcium phosphates: Effect of dispersion on sinterability and microstructural development. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1797-1806.	1.1	6
85	Theoretical and experimental analysis of multifunctional high performance cement mortar matrices reinforced with varying lengths of carbon fibers. <i>Materiales De Construccion</i> , 2018, 68, 172.	0.2	6
86	Experimental Evaluation of Tensile Performance of Aluminate Cement Composite Reinforced with Weft Knitted Fabrics as a Function of Curing Temperature. <i>Polymers</i> , 2021, 13, 4385.	2.0	6
87	The role of water vapour on the oxidation of two Ln-Si-Al-O-N glasses (Ln=Y, La). <i>Journal of Non-Crystalline Solids</i> , 2002, 306, 99-109.	1.5	5
88	The plasters of the Sacro Monte of Varallo Sesia. From the characterisation to the proposition of a restorative mix. <i>Case Studies in Construction Materials</i> , 2014, 1, 46-52.	0.8	5
89	ZnO thick films for NO ₂ detection: effect of different nanostructures on the sensors' performances. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20958-20969.	1.1	5
90	Sol-gel-entrapped pH indicator for monitoring pH variations in cementitious materials. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2020, 18, 228080002093654.	0.7	5

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91	Study of the degradation causes affecting stucco sculptures from the Valentino Castle in Turin. <i>Materials and Structures/Materiaux Et Constructions</i> , 2005, 38, 425-432.	1.3	5
92	Microstructural study of aged ferrite powders for sensing layers. <i>Ceramics International</i> , 2013, 39, 4923-4927.	2.3	4
93	A Shell Model for Free Vibration Analysis of Carbon Nanoscroll. <i>Materials</i> , 2017, 10, 387.	1.3	4
94	Synthesis and Characterization of Nano-Tungsten Oxide Precipitated onto Natural Inorganic Clay for Humidity-Sensing Applications. <i>Ceramics</i> , 2018, 1, 120-127.	1.0	4
95	Modified fracture properties of cement composites with nano/micro carbonized bagasse fibers. <i>Frattura Ed Integrita Strutturale</i> , 2016, , .	0.5	4
96	Development of a porous layer catalytically activated for improving gas sensors performances. <i>Ceramics International</i> , 2007, 33, 1199-1203.	2.3	3
97	Ba-Doped Iron Oxide as a New Material for NO ₂ Detection. <i>Materials</i> , 2013, 6, 4801-4816.	1.3	3
98	Development of a fast humidity sensor based on quartz tuning fork. , 2016, , .		3
99	WO ₃ -Doped Indium Oxide Thick Films for Ozone Detection at Low Temperature. <i>Proceedings (mdpi)</i> , 2017, 1, 428.	0.2	3
100	Role of a sodium glassy binder on microstructure and electrical conductivity of beta-alumina-based gas sensors. <i>Ceramics International</i> , 2004, 30, 525-532.	2.3	2
101	Conventional and SPS Sintering of a Nanocrystalline Alumina: A Comparative Study. <i>Advances in Science and Technology</i> , 2006, 45, 957-962.	0.2	2
102	Investigation of the Film Thickness Influence on the Sensor Response of In ₂ O ₃ -Based Sensors for O ₃ Detection at Low Temperature and Operando DRIFT Study. <i>Proceedings (mdpi)</i> , 2019, 14, .	0.2	2
103	Performance Evaluation of MWCNTs Reinforced Cement Mortar Composites using Natural and Commercial Surfactants. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2022, 37, 47-57.	0.4	2
104	Design of Screen-Printed Porous Layers for Improving Gas Sensor Performances. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 227-234.	0.1	1
105	Selected papers presented at the "International Workshop on Cellular Materials" (I.Wo.C.Mat.) in Turin (Italy) in 2011: Editorial comments. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1485-1486.	2.8	0
106	Response of Nano-Reinforced Cementitious Composites Using Natural and Commercial Dispersants. <i>Proceedings (mdpi)</i> , 2019, 34, 23.	0.2	0
107	Porous Alumina and Zirconia Bodies Obtained by a Novel Gel Casting Process. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 327-338.	0.1	0