Anna Maria Ferrari

List of Publications by Year
in descending order

72 papers	2,452 citations	159358 30 h-index	214527 47 g-index
74 all docs	74 docs citations	74 times ranked	2787 citing authors

#	Article	IF	Citations
1	The Paradigms of Industry 4.0 and Circular Economy as Enabling Drivers for the Competitiveness of Businesses and Territories: The Case of an Italian Ceramic Tiles Manufacturing Company. Social Sciences, 2018, 7, 255.	0.7	147
2	Conventional and Microwave-Hydrothermal Synthesis of TiO2 Nanopowders. Journal of the American Ceramic Society, 2005, 88, 2639-2641.	1.9	111
3	Reaction Mechanism in Alumina/Chromia (Al₂O₃â€“Cr₂O₃) Solid Solutions Obtained by Coprecipitation. Journal of the American Ceramic Society, 2000, 83, 2036-2040.	1.9	89
4	Sustainability Transition in Industry 4.0 and Smart Manufacturing with the Triple-Layered Business Model Canvas. Sustainability, 2020, 12, 2364.	1.6	87
5	Microwaveâ€Hydrothermal Synthesis of Nanocrystalline Zirconia Powders. Journal of the American Ceramic Society, 2001, 84, 2728-2730.	1.9	82
6	Identifying the Equilibrium Point between Sustainability Goals and Circular Economy Practices in an Industry 4.0 Manufacturing Context Using Eco-Design. Social Sciences, 2019, 8, 241.	0.7	81
7	Main Dimensions in the Building of the Circular Supply Chain: A Literature Review. Sustainability, 2020, 12, 2459.	1.6	80
8	Crystallization of (Na₂Oâ€“MgO)â€“CaOâ€“Al₂O₃â€“SiO₂ Glassy Systems Formulated from Waste Products. Journal of the American Ceramic Society, 2000, 83, 2515-2520.	1.9	73
9	Dynamic life cycle assessment (LCA) integrating life cycle inventory (LCI) and Enterprise resource planning (ERP) in an industry 4.0 environment. Journal of Cleaner Production, 2021, 286, 125314.	4.6	71
10	Poly(Îµ-caprolactone)-based nanocomposites: Influence of compatibilization on properties of poly(Îµ-caprolactone)â€“silica nanocomposites. Composites Science and Technology, 2006, 66, 886-894.	3.8	70
11	Social Life-Cycle Assessment: A Review by Bibliometric Analysis. Sustainability, 2020, 12, 6211.	1.6	66
12	Synthesis of silica nanoparticles in a continuous-flow microwave reactor. Powder Technology, 2006, 167, 45-48.	2.1	61
13	Structural and Electrical Characterization of Polymeric Haloplumbate(II) Systems. Inorganic Chemistry, 1999, 38, 716-721.	1.9	55
14	Waste treatment: an environmental, economic and social analysis with a new group fuzzy PROMETHEE approach. Clean Technologies and Environmental Policy, 2016, 18, 1317-1332.	2.1	55
15	Building a Sustainability Benchmarking Framework of Ceramic Tiles Based on Life Cycle Sustainability Assessment (LCSA). Resources, 2019, 8, 11.	1.6	55
16	Environmental assessment of a bottom-up hydrolytic synthesis of TiO₂ nanoparticles. Green Chemistry, 2015, 17, 518-531.	4.6	54
17	Valorization of seasonal agri-food leftovers through insects. Science of the Total Environment, 2020, 709, 136209.	3.9	54
18	Effect of rice husk ash (RHA) in the synthesis of (Pr,Zr)SiO4 ceramic pigment. Journal of the European Ceramic Society, 2007, 27, 3483-3488.	2.8	52

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19	An Additional Structural and Electrical Study of Polymeric Haloplumbates(II) with Heterocyclic Diprotonated Amines. Inorganic Chemistry, 2001, 40, 218-223.	1.9	51
20	Preparation for reuse activity of waste electrical and electronic equipment: Environmental performance, cost externality and job creation. Journal of Cleaner Production, 2019, 222, 77-89.	4.6	50
21	Microwave-Hydrothermal Synthesis and Hyperfine Characterization of Praseodymium-Doped Nanometric Zirconia Powders. Journal of the American Ceramic Society, 2005, 88, 633-638.	1.9	42
22	Recycling of EOL CRT glass into ceramic glaze formulations and its environmental impact by LCA approach. International Journal of Life Cycle Assessment, 2007, 12, 448-454.	2.2	41
23	Characterization of Rice Husk Ash and Its Recycling as Quartz Substitute for the Production of Ceramic Glazes. Journal of the American Ceramic Society, 2010, 93, 121-126.	1.9	39
24	The Anorthite-Diopside System: Structural and Devitrification Study. Part II: Crystallinity Analysis by the Rietveld-RIR Method. Journal of the American Ceramic Society, 2005, 88, 3131-3136.	1.9	38
25	Recycling of Screen Glass Into New Traditional Ceramic Materials. International Journal of Applied Ceramic Technology, 2010, 7, 909-917.	1.1	36
26	Structure, Sintering, and Crystallization Kinetics of Alkalineâ€Earth Aluminosilicate Glassâ€“Ceramic Sealants for Solid Oxide Fuel Cells. Journal of the American Ceramic Society, 2010, 93, 830-837.	1.9	36
27	Nano-TiO2 Coatings for Limestone: Which Sustainability for Cultural Heritage?. Coatings, 2015, 5, 232-245.	1.2	35
28	Industry 4.0-based dynamic Social Organizational Life Cycle Assessment to target the social circular economy in manufacturing. Journal of Cleaner Production, 2021, 327, 129439.	4.6	34
29	Organic/inorganic composite materials: synthesis and properties of one-dimensional polymeric haloplumbate(II) systems. Inorganica Chimica Acta, 1997, 254, 137-143.	1.2	33
30	<scp>CoAl₂O₄</scp> Nano Pigment Obtained by Combustion Synthesis. International Journal of Applied Ceramic Technology, 2012, 9, 968-978.	1.1	33
31	Improving sustainable cultural heritage restoration work through life cycle assessment based model. Journal of Cultural Heritage, 2018, 32, 221-231.	1.5	33
32	The effect of fired scrap addition on the sintering behaviour of hard porcelain. Ceramics International, 2006, 32, 727-732.	2.3	32
33	Human health characterization factors of nano-TiO2 for indoor and outdoor environments. International Journal of Life Cycle Assessment, 2016, 21, 1452-1462.	2.2	32
34	Feasibility of Using Cordierite Glassâ€Ceramics as Tile Glazes. Journal of the American Ceramic Society, 1997, 80, 1757-1766.	1.9	31
35	Role of Praseodymium on Zirconia Phases Stabilization. Chemistry of Materials, 2001, 13, 4550-4554.	3.2	30
36	Life cycle assessment of a large, thin ceramic tile with advantageous technological properties. International Journal of Life Cycle Assessment, 2014, 19, 1567-1580.	2.2	28

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37	A new glassâ€“ceramic red pigment. Journal of the European Ceramic Society, 2004, 24, 3593-3601.	2.8	27
38	Effect of V2O5 addition on the crystallisation of glasses belonging to the CaOâ€“ZrO2â€“SiO2 system. Journal of Non-Crystalline Solids, 2003, 315, 77-88.	1.5	25
39	Synthesis of Zirconia Nanoparticles in a Continuousâ€Flow Microwave Reactor. Journal of the American Ceramic Society, 2008, 91, 3746-3748.	1.9	25
40	Industry 4.0 and Smart Data as Enablers of the Circular Economy in Manufacturing: Product Re-Engineering with Circular Eco-Design. Sustainability, 2021, 13, 10366.	1.6	24
41	The life cycle approach as an innovative methodology for the recovery and restoration of cultural heritage. Journal of Cultural Heritage Management and Sustainable Development, 2014, 4, 133-148.	0.5	23
42	New Glass-Ceramic Inclusion Pigment. Journal of the American Ceramic Society, 2005, 88, 1070-1071.	1.9	22
43	Environmental and social impact assessment of cultural heritage restoration and its application to the Uncastillo Fortress. International Journal of Life Cycle Assessment, 2019, 24, 1297-1318.	2.2	22
44	Sustainability as source of competitive advantages in mature sectors. Smart and Sustainable Built Environment, 2019, 8, 53-79.	2.2	22
45	Environmental and human health assessment of life cycle of nanoTiO2 functionalized porcelain stoneware tile. Science of the Total Environment, 2017, 577, 113-121.	3.9	21
46	Environmental life cycle assessment of the recycling processes of waste plastics recovered by landfill mining. Waste Management, 2020, 118, 68-78.	3.7	21
47	Phytochemical compounds or their synthetic counterparts? A detailed comparison of the quantitative environmental assessment for the synthesis and extraction of curcumin. Green Chemistry, 2016, 18, 1807-1818.	4.6	20
48	Hyperfine Characterization of Pure and Doped Zircons. Journal of Solid State Chemistry, 2000, 150, 14-18.	1.4	16
49	Life Cycle Assessment of Chemical vs Enzymatic-Assisted Extraction of Proteins from Black Soldier Fly Prepupae for the Preparation of Biomaterials for Potential Agricultural Use. ACS Sustainable Chemistry and Engineering, 2020, 8, 14752-14764.	3.2	16
50	Life cycle assessment of an innovative cogeneration system based on the aluminum combustion with water. Renewable Energy, 2020, 154, 532-541.	4.3	16
51	Reaction sintering and microstructural evolution in metakaolin-metastable alumina composites. Journal of Thermal Analysis and Calorimetry, 2014, 117, 1035-1045.	2.0	15
52	Environmental sustainability assessment of a new degreasing formulation for the tanning cycle within leather manufacturing. Green Chemistry, 2017, 19, 4571-4582.	4.6	13
53	Environmental Scanning Electron Microscopy (ESEM) Investigation of the Reaction Mechanism in Praseodymiumâ€Doped Zircon. Journal of the American Ceramic Society, 2000, 83, 1518-1520.	1.9	12
54	Environmental sustainability of orthopedic devices produced with powder bed fusion. Journal of Industrial Ecology, 2020, 24, 681-694.	2.8	10

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55	Dimensionality reduced robust ordinal regression applied to life cycle assessment. Expert Systems With Applications, 2021, 178, 115021.	4.4	10
56	Hyperfine Characterization of Metastable Tetragonal Configurations in Pr-Doped Zirconias. Chemistry of Materials, 2004, 16, 4319-4323.	3.2	9
57	The Liquidus Temperature of Nuclear Waste Glasses: An International Roundâ€Robin Study. International Journal of Applied Glass Science, 2011, 2, 321-333.	1.0	9
58	Life cycle assessment of wheat husk based agro-concrete block. Journal of Cleaner Production, 2022, 349, 131437.	4.6	9
59	The Anorthite-Diopside System: Structural and Devitrification Study. Part I: Structural Characterization by Molecular Dynamic Simulations. Journal of the American Ceramic Society, 2005, 88, 714-718.	1.9	8
60	Sintering and crystallization behavior of CaMgSi2O6â€“NaFeSi2O6 based glass-ceramics. Journal of Applied Physics, 2009, 106, .	1.1	7
61	Management of Asbestos Containing Materials: A Detailed LCA Comparison of Different Scenarios Comprising First Time Asbestos Characterization Factor Proposal. Environmental Science & Technology, 2021, 55, 12672-12682.	4.6	7
62	Life cycle assessment of advertising folders. International Journal of Life Cycle Assessment, 2012, 17, 625-634.	2.2	6
63	E-LCA of Two Microwave Absorbers Obtained from Slag of Copper Primary Production. Waste and Biomass Valorization, 2019, 10, 733-745.	1.8	6
64	Life cycle assessment of a ceramic glaze containing copper slags and its application on ceramic tile. International Journal of Applied Ceramic Technology, 2020, 17, 42-54.	1.1	5
65	USING BLACK SOLDIER FLIES (HERMETIA ILLUCENS) TO BIOCONVERT WASTE FROM THE LIVESTOCK PRODUCTION CHAIN: A LIFE CYCLE ASSESSMENT CASE STUDY. WIT Transactions on Ecology and the Environment, 2018, , .	0.0	5
66	Social Organizational Life Cycle Assessment (SO-LCA) and Organization 4.0: An easy-to-implement method. MethodsX, 2022, 9, 101692.	0.7	4
67	Properties/Structure Relationships in Innovative PCL-SiO2 Nanocomposites. Macromolecular Symposia, 2001, 169, 201-210.	0.4	3
68	Opportune inward waste materials toward a zero waste ceramic slabs production in a circular economy perspective. International Journal of Applied Ceramic Technology, 2020, 17, 32-41.	1.1	3
69	Industry 4.0 real-world testing of dynamic organizational life cycle assessment (O-LCA) of a ceramic tile manufacturer. Environmental Science and Pollution Research, 2023, 30, 124546-124565.	2.7	3
70	Crystallization of some modified fluor-miserite Kx(Ca,Ce)5â^'xSi8O22F2 glasses. Materials Chemistry and Physics, 2014, 147, 113-119.	2.0	2
71	Roomâ€Temperature Degradation of tâ€Zr(Pr)O₂ in an Aqueous Suspension Revealed by Perturbed Angular Correlations. Journal of the American Ceramic Society, 2008, 91, 2357-2359.	1.9	0
72	Environmental Safety of the 180-W GreenLight Laser: A Pilot Study On Plume And Irrigating Fluids. Urology, 2021, 154, 227-232.	0.5	0