Claudio Badini

List of Publications by Year
in descending order

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39	1,104	331670	395702
papers	citations	21 h-index	33 g-index

39	39	39	970
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electron Beam Melting of Ti-48Al-2Nb-0.7Cr-0.3Si: Feasibility investigation. Intermetallics, 2016, 73, 43-49.	3.9	96
2	Combustion of carbonaceous materials by CuKV based catalysts. Applied Catalysis B: Environmental, 1997, 11, 329-346.	20.2	89
3	Titanium aluminides for aerospace and automotive applications processed by Electron Beam Melting: Contribution of Politecnico di Torino. Metal Powder Report, 2016, 71, 193-199.	0.1	85
4	High catalytic activity of SCS-synthesized ceria towards diesel soot combustion. Applied Catalysis B: Environmental, 2006, 69, 85-92.	20.2	63
5	Suitability of some promising soot combustion catalysts for application in diesel exhaust treatment. Applied Catalysis B: Environmental, 1998, 18, 137-150.	20.2	62
6	Effect of active species mobility on soot-combustion over Cs-V catalysts. AICHE Journal, 2003, 49, 2173-2180.	3.6	59
7	Combustion of carbonaceous materials by CuKV based catalysts. Applied Catalysis B: Environmental, 1997, 11, 307-328.	20.2	48
8	Diesel particulate abatement via catalytic traps. Catalysis Today, 2000, 60, 33-41.	4.4	39
9	The effect of mechanical recycling on the microstructure and properties of PA66 composites reinforced with carbon fibers. Journal of Applied Polymer Science, 2015, 132, .	2.6	37
10	A screening study on the activation energy of vanadateâ€based catalysts for diesel soot combustion. Catalysis Letters, 2000, 69, 207-215.	2.6	36
11	Electron Beam Melting of High Niobium Containing TiAl Alloy: Feasibility Investigation. Steel Research International, 2012, 83, 943-949.	1.8	36
12	Potential of SiC multilayer ceramics for high temperature applications in oxidising environment. Ceramics International, 2008, 34, 197-203.	4.8	34
13	Catalytic traps for diesel particulate control. Chemical Engineering Science, 1999, 54, 3035-3041.	3.8	32
14	Effect of porosity of cordierite preforms on microstructure and mechanical strength of co-continuous ceramic composites. Journal of the European Ceramic Society, 2007, 27, 131-141.	5.7	32
15	Mechanical recycling of an end-of-life automotive composite component. Sustainable Materials and Technologies, 2020, 23, e00143.	3.3	32
16	Effect of recycling on polypropylene composites reinforced with glass fibres. Journal of Thermoplastic Composite Materials, 2017, 30, 707-723.	4.2	30
17	Microstructure and mechanical properties of co-continuous metal/ceramic composites obtained from Reactive Metal Penetration of commercial aluminium alloys into cordierite. Composites Part A: Applied Science and Manufacturing, 2010, 41, 639-645.	7.6	29
18	Potential of Mixed Halides and Vanadates as Catalysts for Soot Combustion. Industrial & Engineering Chemistry Research, 1997, 36, 2051-2058.	3.7	28

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19	Thermogravimetric investigation on oxidation kinetics of complex Ti-Al alloys. Intermetallics, 2018, 93, 244-250.	3.9	27
20	High cycle fatigue study of metalâ€“ceramic co-continuous composites. Scripta Materialia, 2006, 55, 1135-1138.	5.2	26
21	Fabrication and characterization of laminated SiC composites reinforced with graphene nanoplatelets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 659, 158-164.	5.6	26
22	Reactivity and Microstructure of Al₂O₃-Reinforced Magnesium-Matrix Composites. Advances in Materials Science and Engineering, 2014, 2014, 1-6.	1.8	25
23	Thermal behavior of thermoplastic polymer nanocomposites containing graphene nanoplatelets. Journal of Applied Polymer Science, 2017, 134, .	2.6	18
24	Preparation of C4 ceramic/metal composites by reactive metal penetration of commercial ceramics. Composites Science and Technology, 2006, 66, 350-356.	7.8	14
25	Oxidation Resistance of Multilayer SiC for Space Vehicle Thermal Protection Systems. Advanced Engineering Materials, 2010, 12, 617-622.	3.5	13
26	Preparation and properties of NiAl(Si)/Al2O3 co-continuous composites obtained by reactive metal penetration. Composites Science and Technology, 2009, 69, 1777-1782.	7.8	12
27	Hetoroporous heterogeneous ceramics for reusable thermal protection systems. Journal of Materials Research, 2013, 28, 2273-2280.	2.6	11
28	Thermal Shock and Oxidation Behavior of HiPIMS TiAlN Coatings Grown on Ti-48Al-2Cr-2Nb Intermetallic Alloy. Materials, 2016, 9, 961.	2.9	11
29	NiAl(Si)/Al2O3 co-continuous composites by double reactive metal penetration into silica preforms. Intermetallics, 2008, 16, 580-583.	3.9	10
30	Thermophysical and radiative properties of pressureless sintered SiC and ZrB2-SiC laminates. Ceramics International, 2018, 44, 15050-15057.	4.8	9
31	Self passivating behavior of multilayer SiC under simulated atmospheric re-entry conditions. Journal of the European Ceramic Society, 2012, 32, 4435-4445.	5.7	8
32	Corrosion Behavior of <scp><scp>SiC</scp></scp> Laminate Under Decomposed Sulfuric Acid at 850Â°C. Journal of the American Ceramic Society, 2012, 95, 2627-2634.	3.8	6
33	Oxidation Behavior at 1600â€‰Â°<scp>C</scp> of Siâ€<scp>S</scp>i<scp>C</scp>â€<scp>Z</scp>r<scp>B</scp>₂ Composites Produced by Si Reactive Infiltration. Advanced Engineering Materials, 2014, 16, 176-183.	3.5	6
34	Thermophysical Properties of Short Carbon Fiber/SiC Multilayer Composites Prepared by Tape Casting and Pressureless Sintering. International Journal of Applied Ceramic Technology, 2015, 12, 510-521.	2.1	5
35	Laser printing of conductive tracks with extremely low electrical resistance on polymerâ€“carbon nanotubes composite: An optimization study of laser setup parameters by design of experiment approach. Polymer Engineering and Science, 2018, 58, 1485-1493.	3.1	5
36	Mobile and non-mobile catalysts for diesel-particulate combustion: A kinetic study. Korean Journal of Chemical Engineering, 2003, 20, 451-456.	2.7	4

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37	Preparation and prospective application of short carbon fiber/SiC multilayer composites by tape casting. World Journal of Engineering, 2011, 8, 331-334.	1.6	1
38	Effect of ZrB2 addition on the oxidation behavior of Si-SiC-ZrB2 composites exposed at 1500Â°C in air. Journal of Applied Biomaterials and Functional Materials, 2018, 16, 14-22.	1.6	0
39	Processing of hybrid laminates integrating ZrB₂/SiC and SiC layers. AIMS Materials Science, 2020, 7, 552-564.	1.4	0