

Roberta Licheri

List of Publications by Year in descending order

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48
papers

2,503
citations

257450

24
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206112

48
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50
docs citations

50
times ranked

2122
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra high temperature high-entropy borides: Effect of graphite addition on oxides removal and densification behaviour. <i>Ceramics International</i> , 2021, 47, 6220-6231.	4.8	22
2	High-entropy transition metal diborides by reactive and non-reactive spark plasma sintering: A comparative investigation. <i>Journal of the European Ceramic Society</i> , 2020, 40, 942-952.	5.7	64
3	Novel processing route for the fabrication of bulk high-entropy metal diborides. <i>Scripta Materialia</i> , 2019, 158, 100-104.	5.2	157
4	Ultra-high temperature porous graded ceramics for solar energy applications. <i>Journal of the European Ceramic Society</i> , 2019, 39, 72-78.	5.7	16
5	Optical characterization of hafnium boride and hafnium carbide-based ceramics for solar energy receivers. <i>Solar Energy</i> , 2018, 169, 111-119.	6.1	24
6	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.	4.8	6
7	Titanium diboride ceramics for solar thermal absorbers. <i>Solar Energy Materials and Solar Cells</i> , 2017, 169, 313-319.	6.2	69
8	Tantalum carbide products from chemically-activated combustion synthesis reactions. <i>Ceramics International</i> , 2017, 43, 12844-12850.	4.8	10
9	Processing, Mechanical and Optical Properties of Additive-Free ZrC Ceramics Prepared by Spark Plasma Sintering. <i>Materials</i> , 2016, 9, 489.	2.9	9
10	Optical properties of dense zirconium and tantalum diborides for solar thermal absorbers. <i>Renewable Energy</i> , 2016, 91, 340-346.	8.9	46
11	Bulk monolithic zirconium and tantalum diborides by reactive and non-reactive spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2016, 663, 351-359.	5.5	53
12	Influence of the heating rate on the in situ synthesis and consolidation of ZrB ₂ by reactive Spark Plasma Sintering. <i>Journal of the European Ceramic Society</i> , 2015, 35, 1129-1137.	5.7	38
13	Coupling SHS and SPS Processes. <i>Advances in Science and Technology</i> , 2014, 88, 111-120.	0.2	2
14	Synthesis, Sintering, and Oxidative Behavior of HfB ₂ -HfSi ₂ Ceramics. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 9101-9108.	3.7	28
15	Fabrication and Formation Mechanism of B ₄ C-TiB ₂ Composite by Reactive Spark Plasma Sintering Using Unmilled and Mechanically Activated Reactants. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3463-3471.	3.8	24
16	Chemically and mechanically activated combustion synthesis of B ₄ C-TiB ₂ composites. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012, 35, 41-48.	3.8	11
17	Effect of ball milling on reactive spark plasma sintering of B ₄ C-TiB ₂ composites. <i>Ceramics International</i> , 2012, 38, 6469-6480.	4.8	35
18	Spark plasma sintering processing for the evaluation of cryomilled CoNiCrAlY alloys for high temperature applications in oxidizing environment. <i>Chemical Engineering Journal</i> , 2012, 200-202, 68-80.	12.7	10

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19	Self-propagating high-temperature reactions for the fabrication of Lunar and Martian physical assets. <i>Acta Astronautica</i> , 2012, 70, 69-76.	3.2	26
20	Optimization of the self-propagating high-temperature process for the fabrication in situ of Lunar construction materials. <i>Chemical Engineering Journal</i> , 2012, 193-194, 410-421.	12.7	15
21	Spark plasma synthesis and densification of TaB ₂ by pulsed electric current sintering. <i>Materials Letters</i> , 2011, 65, 3080-3082.	2.6	31
22	Influence of processing parameters on the electrical response of screen printed SrFe _{0.6} Ti _{0.4} O ₃ thick films. <i>Ceramics International</i> , 2010, 36, 521-527.	4.8	18
23	Synthesis, densification and characterization of TaB ₂ /SiC composites. <i>Ceramics International</i> , 2010, 36, 937-941.	4.8	35
24	Microstructure Evolution During Spark Plasma Sintering of Metastable (ZrO ₂ 3 mol%) Tj ETQq0 0 0 rgBT /Overlock 10 T the American Ceramic Society, 2010, 93, 2864-2870.	3.8	20
25	Efficient Technologies for the Fabrication of Dense TaB ₂ -Based Ultra-High-Temperature Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2206-2212.	8.0	38
26	Mechanochemically activated powders as precursors for spark plasma sintering (SPS) processes. , 2010, , 275-303.		1
27	On the controversial formation of silver diboride: Processing of Ag+2B powders by spark plasma sintering. <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 1991-1995.	1.2	5
28	Consolidation/synthesis of materials by electric current activated/assisted sintering. <i>Materials Science and Engineering Reports</i> , 2009, 63, 127-287.	31.8	1,047
29	Energy efficiency during conventional and novel sintering processes: the case of Ti/Al ₂ O ₃ /TiC composites. <i>Journal of Cleaner Production</i> , 2009, 17, 877-882.	9.3	29
30	Reactive Spark Plasma Sintering of rhenium diboride. <i>Ceramics International</i> , 2009, 35, 397-400.	4.8	50
31	Spark plasma sintering of self-propagating high-temperature synthesized TiC _{0.7} /TiB ₂ powders and detailed characterization of dense product. <i>Ceramics International</i> , 2009, 35, 2587-2599.	4.8	15
32	Spark plasma sintering of ZrB ₂ - and HfB ₂ -based Ultra High Temperature Ceramics prepared by SHS. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2009, 18, 15-24.	0.5	16
33	Consolidation via spark plasma sintering of HfB ₂ /SiC and HfB ₂ /HfC/SiC composite powders obtained by self-propagating high-temperature synthesis. <i>Journal of Alloys and Compounds</i> , 2009, 478, 572-578.	5.5	77
34	FeSrTiO ₃ -based resistive oxygen sensors for application in diesel engines. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 647-653.	7.8	27
35	Spark plasma sintering of UHTC powders obtained by self-propagating high-temperature synthesis. <i>Journal of Materials Science</i> , 2008, 43, 6406-6413.	3.7	18
36	SHS in Italy: An overview. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2008, 17, 76-84.	0.5	2

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37	Combination of SHS and SPS Techniques for fabrication of fully dense ZrB ₂ -ZrC-SiC composites. <i>Materials Letters</i> , 2008, 62, 432-435.	2.6	110
38	Efficient Synthesis/Sintering Routes To Obtain Fully Dense Ultra-High-Temperature Ceramics (UHTCs). <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 9087-9096.	3.7	33
39	Mechanical and electric current activation of solid-state reactions for the synthesis of fully dense advanced materials. <i>Chemical Engineering Science</i> , 2007, 62, 4885-4890.	3.8	12
40	Self-propagating high-temperature synthesis of barium titanate and subsequent densification by spark plasma sintering (SPS). <i>Journal of the European Ceramic Society</i> , 2007, 27, 2245-2253.	5.7	44
41	Resistive λ -sensors based on ball milled Fe-doped SrTiO ₃ nanopowders obtained by self-propagating high-temperature synthesis (SHS). <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 258-265.	7.8	25
42	Self-propagating combustion synthesis of intermetallic matrix composites in the ISS. <i>Microgravity Science and Technology</i> , 2007, 19, 85-89.	1.4	4
43	Low-gravity combustion synthesis: Theoretical analysis of experimental evidences. <i>AIChE Journal</i> , 2006, 52, 3744-3761.	3.6	14
44	Chemically-activated combustion synthesis of TiC-Ti composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 367, 185-197.	5.6	49
45	Combustion synthesis of TiC-metal composites and related plasma spraying deposition. <i>International Journal of Materials and Product Technology</i> , 2004, 20, 464.	0.2	4
46	A review on combustion synthesis of novel materials: recent experimental and modeling results. <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 122-127.	3.2	48
47	Self-propagating combustion synthesis and plasma spraying deposition of TiC-Fe powders. <i>Ceramics International</i> , 2003, 29, 519-526.	4.8	54
48	Processing and Characterization of Zr-, Hf- and Ta-Based Ultra High Temperature Ceramics. <i>Advances in Science and Technology</i> , 0, , .	0.2	6