F Padella

List of Publications by Year in descending order

30 papers	1,088 citations	516710 16 h-index	454955 30 g-index
32 all docs	32 docs citations	32 times ranked	1018 citing authors

#	Article	IF	Citations
1	Mechanical alloying of the Feâ"Zr system. Correlation between input energy and end products. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1991, 13, 459-476.	0.4	244
2	Ball milling: An experimental support to the energy transfer evaluated by the collision model. Scripta Materialia, 1996, 34, 13-19.	5.2	107
3	Development of composite materials by mechanochemical treatment of post-consumer plastic waste. Waste Management, 2002, 22, 913-916.	7.4	67
4	Solid state reactions induced by mechanical alloying in metal-silicon (metal = Mo, Nb) systems. Acta Metallurgica Et Materialia, 1995, 43, 3755-3761.	1.8	64
5	Mechanical alloying of the Ti-Al system. Journal of Materials Science, 1991, 26, 6190-6196.	3.7	55
6	Mechanosynthesis and process characterization of nanostructured manganese ferrite. Materials Chemistry and Physics, 2005, 90, 172-177.	4.0	55
7	Magnetic Metalâ€"Organic Framework Composite by Fast and Facile Mechanochemical Process. Inorganic Chemistry, 2018, 57, 1806-1814.	4.0	54
8	Power measurements during mechanical millingâ€"II. The case of â€œsingle path cumulativeâ€•solid state reaction. Acta Materialia, 1998, 46, 2841-2850.	7.9	46
9	Synthesis and characterization of nanocrystalline : advances in thermochemical water splitting. International Journal of Hydrogen Energy, 2005, 30, 1407-1411.	7.1	45
10	Synthesis of amorphous and metastable Ti40Al60 alloys by mechanical alloying of elemental powders. Journal of Materials Science, 1994, 29, 2436-2444.	3.7	44
11	High-energy mechanical alloying of thermoplastic polymers in carbon dioxide. Polymer, 2002, 43, 1155-1161.	3.8	43
12	Mechanochemical surface activation of ground tire rubber by solid-state devulcanization and grafting. Journal of Applied Polymer Science, 2003, 90, 1631-1638.	2.6	42
13	Mechanical alloying of the Pd-Si system in controlled conditions of energy transfer. Journal of the Less Common Metals, 1991, 175, 79-90.	0.8	36
14	Hydrogen production by using manganese ferrite: Evidences and benefits of a multi-step reaction mechanism. International Journal of Hydrogen Energy, 2006, 31, 2217-2222.	7.1	21
15	Manganese iron oxide superparamagnetic powder by mechanochemical processing. Nanoparticles functionalization and dispersion in a nanofluid. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	20
16	Preparation of amorphous Fe-Zr alloys by mechanical alloying and melt spinning methods. Journal of Materials Science, 1989, 24, 3053-3058.	3.7	19
17	Kinematic observations and energy modeling of a Zoz Simoloyer high-energy ball milling device. International Journal of Advanced Manufacturing Technology, 2013, 69, 2423-2435.	3.0	16
18	Early and late mechanical alloying stages of the Pd-Si system. Journal of Materials Science, 1991, 26, 3969-3976.	3.7	15

#	Article	IF	Citations
19	On the formation of Pd3Si by mechanical alloying solid-state reaction. Journal of Non-Crystalline Solids, 1989, 110, 69-73.	3.1	11
20	On the oxygen-releasing step in the water-splitting thermochemical cycle by MnFe2O4â€“Na2CO3 system. Scripta Materialia, 2006, 55, 875-877.	5.2	11
21	Chemical equilibria involved in the oxygen-releasing step of manganese ferrite water-splitting thermochemical cycle. Journal of Solid State Chemistry, 2008, 181, 1992-1997.	2.9	11
22	Chemical aspects of the water-splitting thermochemical cycle based on sodium manganese ferrite. International Journal of Hydrogen Energy, 2012, 37, 11595-11601.	7.1	11
23	Mechanically Activated Low Temperature Synthesis of Sr Doped Lanthanum Manganite. Materials Science Forum, 1998, 269-272, 105-110.	0.3	10
24	The oxygen-releasing step in the water splitting cycle by MnFe2O4â€“Na2CO3 system. International Journal of Hydrogen Energy, 2009, 34, 4546-4550.	7.1	10
25	Progress in Understanding Factors Governing the Sodium Manganese Ferrite Thermochemical Cycle. Journal of Solar Energy Engineering, Transactions of the ASME, 2010, 132, .	1.8	8
26	Core-level and valence band photoemission study of perovskite oxide powders synthesized by mechanically and thermally activated solid-state reaction. Journal of Physics Condensed Matter, 1999, 11, 3387-3393.	1.8	7
27	The carbonatation reaction of layered Na(Mn1/3Fe2/3)O2: A high temperature study. Solid State Ionics, 2011, 187, 19-26.	2.7	7
28	Mechanical alloying of the Pdî—¸Si system. Investigation of the early and late milling stages. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 134, 1406-1409.	5.6	5
29	Influence of Oxygen Contamination on the Pd-Si Solid-State Reactions Activated by Mechanical Alloying. Chemistry of Materials, 1994, 6, 983-989.	6.7	3
30	X-ray diffraction study on the amorphization of the Pd₈₀Si₂₀ powder mixture by mechanical alloying. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1993, 68, 833-844.	0.6	1