Rouholah Ashiri

List of Publications by Year
in descending order

46 papers	1,781 citations	230014 27 h-index	312153 41 g-index
52 all docs	52 docs citations	52 times ranked	1516 citing authors

#	Article	IF	Citations
1	Facile solution-based synthesis of impurity-free hydroxyapatite nanocrystals at ambient conditions. Journal of Materials Research and Technology, 2022, 16, 656-674.	2.6	15
2	Study of Corrosion Behavior in Resistance Spot Welds of Thin Sheets of Zinc-Coated Interstitial-Free Steel. Journal of Materials Engineering and Performance, 2021, 30, 1723-1736.	1.2	5
3	Enhancing nugget size and weldable current range of ultra-high-strength steel using multi-pulse resistance spot welding. Science and Technology of Welding and Joining, 2020, 25, 235-242.	1.5	20
4	Electron beam assisted physical vapor deposition of very hard TiCN coating with nanoscale characters. Ceramics International, 2019, 45, 14821-14828.	2.3	23
5	Resistance Spot Welding Metallurgy of Thin Sheets of Zinc-Coated Interstitial-Free Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 2218-2234.	1.1	29
6	Superiority of sonochemical processing method for the synthesis of barium titanate nanocrystals in contrast to the mechanochemical approach. Ultrasonics Sonochemistry, 2018, 41, 127-133.	3.8	41
7	A Phenomenological Study of Weld Discontinuities and Defects in Resistance Spot Welding of Advanced High Strength TRIP Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 6161-6172.	1.1	40
8	Tetragonality enhancement in BaTiO₃ by mechanical activation of the starting Ba<scp>CO</scp>₃ and TiO₂ powders: Characterization of the contribution of the mechanical activation and postmilling calcination phenomena. International Journal of Applied Ceramic Technology, 2018, 15, 1518-1531.	1.1	20
9	A microstructure evaluation of different areas of resistance spot welding on ultra-high strength TRIP1100 steel. Cogent Engineering, 2018, 5, 1512939.	1.1	8
10	Weld Processing and Mechanical Responses of 1-GPa TRIP Steel Resistance Spot Welds. Welding Journal, 2018, 97, 157-169.	0.9	20
11	Mechanisms of weld pool flow and slag formation location in cold metal transfer (CMT) gas metal arc welding (GMAW). Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 1275-1285.	1.3	42
12	Facile synthesis of NiTiO 3 yellow nano-pigments with enhanced solar radiation reflection efficiency by an innovative one-step method at low temperature. Dyes and Pigments, 2017, 139, 388-396.	2.0	43
13	Low-temperature ultrasound synthesis of nanocrystals CoTiO 3 without a calcination step: Effect of ultrasonic waves on formation of the crystal growth mechanism. Advanced Powder Technology, 2017, 28, 1109-1117.	2.0	36
14	Porosity formation mechanisms in cold metal transfer (CMT) gas metal arc welding (GMAW) of zinc coated steels. Science and Technology of Welding and Joining, 2016, 21, 209-215.	1.5	53
15	Effect of scandia content on the thermal shock behavior of SYSZ thermal sprayed barrier coatings. Ceramics International, 2016, 42, 11118-11125.	2.3	37
16	Enhancing the formation of tetragonal phase in perovskite nanocrystals using an ultrasound assisted wet chemical method. Ultrasonics Sonochemistry, 2016, 33, 141-149.	3.8	46
17	Liquid metal embrittlement-free welds of Zn-coated twinning induced plasticity steels. Scripta Materialia, 2016, 114, 41-47.	2.6	97
18	On the solid-state formation of BaTiO₃ nanocrystals from mechanically activated BaCO₃ and TiO₂ powders: innovative mechanochemical processing, the mechanism involved, and phase and nanostructure evolutions. RSC Advances, 2016, 6, 17138-17150.	1.7	41

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19	Analysis and Characterization of the Role of Ni Interlayer in the Friction Welding of Titanium and 304 Austenitic Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 347-359.	1.1	108
20	Obtaining a novel crystalline/amorphous core/shell structure in barium titanate nanocrystals by an innovative one-step approach. RSC Advances, 2015, 5, 48281-48289.	1.7	19
21	Processing and Characterization of Carbonate-Free BaTiO3 Nanoscale Particles Obtained by a Rapid Ultrasound-Assisted Wet Chemical Approach. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1912-1923.	1.0	13
22	Nanocrystals of XTiO3 (X = Ba, Sr, Ni, Ba Ti1â^') materials obtained through a rapid one-step methodology at 50 Â°C. Ultrasonics Sonochemistry, 2015, 26, 293-304.	3.8	34
23	A new solâ€“gel processing routine without chelating agents for preparing highly transparent solutions and nanothin films: engineering the role of chemistry to design the process. Philosophical Magazine, 2015, 95, 1-11.	0.7	26
24	Obtaining the highly pure barium titanate nanocrystals by a new approach. Journal of Alloys and Compounds, 2015, 648, 265-268.	2.8	23
25	Fabrication of DLC thin films with improved diamond-like carbon character by the application of external magnetic field. Carbon, 2015, 94, 485-493.	5.4	113
26	Sonochemical Synthesis of <scp>S</scp>r<scp>T</scp>i<scp>O</scp>₃ Nanocrystals at Low Temperature. International Journal of Applied Ceramic Technology, 2015, 12, E202.	1.1	29
27	Supercritical area and critical nugget diameter for liquid metal embrittlement of Zn-coated twining induced plasticity steels. Scripta Materialia, 2015, 109, 6-10.	2.6	108
28	Synthesis and characterization of electrochemically grown CdSe nanowires with enhanced photoconductivity. Journal of Materials Science: Materials in Electronics, 2015, 26, 1395-1402.	1.1	11
29	From inorganic/organic nanocomposite based on chemically hybridized CdSâ€“TGA to pure CdS nanoparticles. Journal of Industrial and Engineering Chemistry, 2015, 21, 965-970.	2.9	30
30	Development of a nanostructured Zr3Co intermetallic getter powder with enhanced pumping characteristics. Intermetallics, 2015, 57, 51-59.	1.8	13
31	Carbonate-Free Strontium Titanium Oxide Nanosized Crystals with Tailored Morphology: Facile Synthesis, Characterization, and Formation Mechanism. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1979-1986.	1.0	30
32	Nanothickness films, nanostructured films, and nanocrystals of barium titanate obtained directly by a newly developed solâ€“gel synthesis pathway. Journal of Materials Science: Materials in Electronics, 2014, 25, 5345-5355.	1.1	23
33	Development and investigation of novel nanoparticle embedded solutions with enhanced optical transparency. Journal of Materials Research, 2014, 29, 2949-2956.	1.2	14
34	Physical, mechanical and dry sliding wear properties of an Alâ€“Siâ€“Mgâ€“Niâ€“Cu alloy under different processing conditions. Journal of Alloys and Compounds, 2014, 582, 213-222.	2.8	28
35	Analysis and Characterization of Relationships Between the Processing and Optical Responses of Amorphous BaTiO3 Nanothin Films Obtained by an Improved Wet Chemical Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1472-1483.	1.0	29
36	Synthesis of Volcanoâ€Like CdS/Organic Nanocomposite. International Journal of Applied Ceramic Technology, 2014, 11, 637-644.	1.1	30

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37	Crack-free nanostructured BaTiO3 thin films prepared by solâ€“gel dip-coating technique. Ceramics International, 2014, 40, 8613-8619.	2.3	61
38	A Mechanistic Study of Nanoscale Structure Development, Phase Transition, Morphology Evolution, and Growth of Ultrathin Barium Titanate Nanostructured Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 4138-4154.	1.1	34
39	Low Temperature Synthesis of Carbonateâ€Free Barium Titanate Nanoscale Crystals: Toward a Generalized Strategy of Titanateâ€Based Perovskite Nanocrystals Synthesis. Journal of the American Ceramic Society, 2014, 97, 2027-2031.	1.9	34
40	On effect of squeezing pressure on microstructural characteristics, heat treatment response and electrical conductivity of an Al-Si-Mg-Ni-Cu alloy. Materials Science and Technology, 2014, 30, 1162-1169.	0.8	18
41	Detailed FT-IR spectroscopy characterization and thermal analysis of synthesis of barium titanate nanoscale particles through a newly developed process. Vibrational Spectroscopy, 2013, 66, 24-29.	1.2	118
42	Analysis and Characterization of Phase Evolution of Nanosized BaTiO3 Powder Synthesized Through a Chemically Modified Sol-Gel Process. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4414-4426.	1.1	51
43	A modified method for barium titanate nanoparticles synthesis. Materials Research Bulletin, 2011, 46, 2291-2295.	2.7	59
44	Characterization of optical properties of amorphous BaTiO3 nanothin films. Journal of Non-Crystalline Solids, 2009, 355, 2480-2484.	1.5	62
45	Effect of casting process on microstructure and tribological behavior of LM13 alloy. Journal of Alloys and Compounds, 2009, 475, 321-327.	2.8	20
46	Evaluation of Weldability and Mechanical Properties in Resistance Spot Welding of Ultrahigh-Strength TRIP1100 Steel. SAE International Journal of Materials and Manufacturing, 0, 12, 5-18.	0.3	11