

# Sh Raygan

## List of Publications by Year in descending order

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72  
papers

964  
citations

394421

19  
h-index

526287

27  
g-index

74  
all docs

74  
docs citations

74  
times ranked

881  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of silver extraction from Ag <sub>2</sub> S containing concentrate in the presence of copper sulfate, sodium thiosulfate, sodium metabisulfite, and ascorbic acid. Minerals Engineering, 2022, 183, 107607.	4.3	1
2	Low-carbon cast microalloyed steel intercritically heat-treated at different temperatures: microstructure and mechanical properties. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	3.8	2
3	Increased coercivity in recalcined barium ferrite/magnetite nanocomposites. International Journal of Materials Research, 2021, 112, 384-390.	0.3	0
4	Leaching behavior of silver sulfide in the sodium thiosulfate-copper sulfate- sodium metabisulfite system. Minerals Engineering, 2021, 174, 107275.	4.3	3
5	Synthesis of Ni/TiC Composite by Ball Milling and Heat Treatment of NiO/TiO <sub>2</sub> /C Powder Mixture. Transactions of the Indian Institute of Metals, 2020, 73, 81-92.	1.5	3
6	Effect of Aging on the Structure and Transformation Behavior of Cu-12Al-3.5Ni-0.7Ti-0.05RE High Temperature Shape Memory Alloy. Metals and Materials International, 2020, 26, 1354-1365.	3.4	10
7	Investigation of dehydrogenation performance and air stability of MgH <sub>2</sub> /PMMA nanostructured composite prepared by direct high-energy ball-milling. Materials for Renewable and Sustainable Energy, 2020, 9, 1.	3.6	9
8	Effect of chemical activation process on adsorption of As(V) ion from aqueous solution by mechano-thermally synthesized zinc ferrite nanopowder. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 526-537.	4.9	6
9	Capabilities of nickel zinc ferrite and its nanocomposite with CNT for adsorption of arsenic (V) ions from wastewater. Journal of Environmental Chemical Engineering, 2019, 7, 103493.	6.7	33
10	Effect of adding Ti and rare earth elements on properties of Cu-14Al-4Ni shape memory alloy. Materials Research Express, 2019, 6, 116512.	1.6	0
11	Properties of rare earth added Cu-12wt%Al-3wt%Ni-0.6wt%Ti high temperature shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 370-381.	5.6	24
12	Tensile behavior of normalized low carbon Nb-microalloyed steel in the presence of rare earth elements. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 749, 56-64.	5.6	14
13	Contributions of Rare Earth Element (La,Ce) Addition to the Impact Toughness of Low Carbon Cast Niobium Microalloyed Steels. Metals and Materials International, 2018, 24, 773-788.	3.4	51
14	Using response surface methodology to optimize the operating parameters in a top-spray fluidized bed coating system. Surface and Coatings Technology, 2018, 334, 43-49.	4.8	13
15	Properties of activated MgH <sub>2</sub> /mischmetal nanostructured composite produced by ball-milling. Materials for Renewable and Sustainable Energy, 2018, 7, 1.	3.6	14
16	Evolution of Pearlite Microstructure in Low-Carbon Cast Microalloyed Steel Due to the Addition of La and Ce. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4495-4508.	2.2	20
17	The effect of different carbon reducing agents in synthesizing barium ferrite/magnetite nanocomposites. Materials Chemistry and Physics, 2018, 219, 155-161.	4.0	10
18	Application of response surface methodology for modelling of TiC coating on AISI D2 steel using a mechanical milling technique. Powder Metallurgy, 2017, 60, 280-292.	1.7	3

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19	Leaching of nickel from a secondary source by sulfuric acid. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 3922-3929.	6.7	24
20	The Influence of La and Ce Addition on Inclusion Modification in Cast Niobium Microalloyed Steels. <i>Metals</i> , 2017, 7, 377.	2.3	35
21	Exchange bias in barium ferrite/magnetite nanocomposites. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	4
22	Experimental Investigation and CFD Simulation of Top Spray Fluidized Bed Coating System. <i>Periodica Polytechnica: Chemical Engineering</i> , 2016, , .	1.1	3
23	Study of novel mechano-chemical activation process of red mud to optimize nitrate removal from water. <i>Water Science and Technology</i> , 2016, 73, 899-908.	2.5	6
24	Role of intensive milling in the processing of barium ferrite/magnetite/iron hybrid magnetic nano-composites via partial reduction of barium ferrite. <i>Materials Characterization</i> , 2015, 101, 78-82.	4.4	11
25	Effect of Synthesized MgNi <sub>4</sub> Y Catalyst on Hydrogen Desorption Properties of Milled MgH <sub>2</sub> . <i>Metallurgical and Materials Transactions E</i> , 2015, 2, 27-32.	0.5	0
26	Effect of process control agents on synthesizing nano-structured 2Mgâ€“(9Niâ€“)Y catalyst by mechanical milling and its catalytic effect on desorption capacity of MgH <sub>2</sub> . <i>Advanced Powder Technology</i> , 2015, 26, 448-453.	4.1	23
27	Comparing microstructure and mechanical properties of AISI D2 steel after bright hardening and oil quenching. <i>Materials &amp; Design</i> , 2014, 54, 1049-1055.	5.1	39
28	Chlorideâ€“(hypochlorite leaching and hydrochloric acid washing in multi-stages for extraction of gold from a refractory concentrate. <i>Hydrometallurgy</i> , 2014, 142, 56-59.	4.3	39
29	Simultaneous carbothermic reduction of iron and titanium oxides to produce an iron-based composite by mechanically activated sintering method. <i>Advanced Powder Technology</i> , 2014, 25, 859-864.	4.1	4
30	The influence of alkaline salt bath quenching on the microstructure and mechanical properties of AISI D2 steel. <i>Canadian Metallurgical Quarterly</i> , 2014, 53, 88-92.	1.2	1
31	Study of thermomechanical treatment on mechanical-induced phase transformation of NiTi and TiNiCu wires. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 21, 32-36.	3.1	10
32	Mechanical milling of Mg, Ni and Y powder mixture and investigating the effects of produced nanostructured MgNi <sub>4</sub> Y on hydrogen desorption properties of MgH <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6687-6693.	7.1	27
33	Preparing TiC coating on AISI D2 steel using mechanical milling technique. <i>Powder Technology</i> , 2013, 246, 229-234.	4.2	13
34	Simultaneous sulfide oxidation and gold leaching of a refractory gold concentrate by chlorideâ€“(hypochlorite solution. <i>Minerals Engineering</i> , 2013, 50-51, 140-142.	4.3	23
35	Chlorideâ€“(hypochlorite leaching of gold from a mechanically activated refractory sulfide concentrate. <i>Hydrometallurgy</i> , 2013, 138, 59-64.	4.3	43
36	A comparative study for synthesis methods of nano-structured (9Niâ€“(2Mgâ€“)Y alloy catalysts and effect of the produced alloy on hydrogen desorption properties of MgH <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16090-16097.	7.1	16

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37	Mechanochemical synthesis of Wâ€Cu nanocomposites via in-situ co-reduction of the oxides. Powder Technology, 2013, 233, 208-214.	4.2	23
38	Influence of thermomechanical treatment on microstructure and properties of electrosag remelted Cuâ€Crâ€Zr alloy. Materials & Design, 2013, 51, 688-694.	5.1	33
39	Determination of kinetic parameters and hydrogen desorption characteristics of MgH <sub>2</sub> -10Åwt% (9Niâ€2Mgâ€Y) nano-composite. International Journal of Hydrogen Energy, 2013, 38, 11910-11919.	7.1	66
40	Comparison of Cyanide and Chloride-Hypochlorite Leaching of a Ball Milled Refractory Gold Concentrate with Ultra-Fine Particles. Advanced Materials Research, 2013, 829, 869-873.	0.3	1
41	Production of Cu-Cr-Zr Alloy Using Electrosag Remelting Technique. International Journal of Engineering, Transactions B: Applications, 2013, 26, .	0.7	0
42	Synthesizing Nanostructured Ni<sub>75</sub>Mg<sub>16.66</sub>Y<sub>8.34</sub> (at%) Powder by Solid State Reaction and Mechanical Milling. Materials and Manufacturing Processes, 2012, 27, 1300-1305.	4.7	8
43	SYNTHESIS OF BARIUM HEXAFERRITE/IRON OXIDES MAGNETIC NANO-COMPOSITES VIA HIGH ENERGY BALL MILLING AND SUBSEQUENT HEAT TREATMENT. International Journal of Modern Physics Conference Series, 2012, 05, 519-526.	0.7	3
44	Effect of cold-working and aging processes on the microstructure, mechanical properties and electrical conductivity of Cuâ€13.5%Mnâ€4%Niâ€1.2%Ti alloy. Materials & Design, 2012, 41, 182-191.	5.1	10
45	In Situ Production of Fe-TiC Nanocomposite by Mechanical Activation and Heat Treatment of the Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> /C Powder. Journal of Materials Engineering and Performance, 2012, 21, 2295-2302.	2.5	4
46	Investigation on the Effects of Milling Atmosphere on Synthesis of Barium Ferrite/Magnetite Nanocomposite. Journal of Superconductivity and Novel Magnetism, 2012, 25, 519-524.	1.8	10
47	The effect of heat treatment and re-calcination on magnetic properties of BaFe <sub>12</sub> O <sub>19</sub> /Fe <sub>3</sub> O <sub>4</sub> nano-composite. Ceramics International, 2012, 38, 3155-3159.	4.8	12
48	Magnetic property enhancement and characterization of nano-structured barium ferrite by mechano-thermal treatment. Materials Characterization, 2012, 63, 83-89.	4.4	27
49	Corrosion resistance improvement in Gas Tungsten Arc Welded 316L stainless steel joints through controlled preheat treatment. Materials & Design, 2012, 34, 51-57.	5.1	25
50	Synthesis and characterization of BaFe <sub>12</sub> O <sub>19</sub> /Fe <sub>3</sub> O <sub>4</sub> and BaFe <sub>12</sub> O <sub>19</sub> /Fe/Fe <sub>3</sub> O <sub>4</sub> magnetic nano-composites. Powder Technology, 2012, 221, 292-295.	4.2	33
51	Evaluation of Microstructure and Toughness of AISI D2 Steel by Bright Hardening in Comparison with Oil Quenching. , 2011, , .		2
52	Effect of mechanical activation on the production of SiC from silica sand. International Journal of Refractory Metals and Hard Materials, 2011, 29, 10-13.	3.8	7
53	Effect of rolling and annealing processes on the hardness and electrical conductivity values of Cuâ€13.5%Mnâ€4%Ni alloy. Journal of Materials Processing Technology, 2011, 211, 1810-1816.	6.3	16
54	Combined effects of different heat treatments and Cu element on transformation behavior of NiTi orthodontic wires. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 298-302.	3.1	11

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55	The chlorination kinetics of zirconium dioxide mixed with carbon black. <i>Thermochimica Acta</i> , 2011, 512, 93-97.	2.7	14
56	Heat treatment of mechano-chemically produced BaFe <sub>12</sub> O <sub>19</sub> /Fe <sub>3</sub> O <sub>4</sub> magnetic nano-composites. <i>Journal of Physics: Conference Series</i> , 2011, 292, 012016.	0.4	2
57	AN INVESTIGATION INTO MECHANOCHEMICAL SYNTHESIS OF NANOCRYSTALLINE HEXAFERRITE POWDER. <i>International Journal of Modern Physics B</i> , 2011, 25, 987-993.	2.0	1
58	Synthesis of Magnetic Nano-Composite by Partial Reduction of Barium Hexaferrite via High-Energy Ball Milling. <i>Key Engineering Materials</i> , 2010, 434-435, 354-356.	0.4	4
59	Evaluation of four coals for blast furnace pulverized coal injection. <i>Journal of Iron and Steel Research International</i> , 2010, 17, 8-12.	2.8	17
60	Production of magnetic nanocomposite by partial reduction of barium hexaferrite via mechanical ball milling. , 2009, , .		0
61	Influence of talc additive on cold strength and reducibility of iron ore sinters compared to bentonite. <i>Ironmaking and Steelmaking</i> , 2009, 36, 273-278.	2.1	4
62	Comparison of Microstructure and Surface Properties of AISI 1045 Steel After Quenching in Hot Alkaline Salt Bath and Oil. <i>Journal of Materials Engineering and Performance</i> , 2009, 18, 168-173.	2.5	8
63	The Mechanical and Thermal Behaviors of Heat-Treated Ni-Rich NiTi Orthodontic Archwires. <i>Journal of Materials Engineering and Performance</i> , 2009, 18, 843-847.	2.5	4
64	An Investigation on Quenching Performance of Hot Alkaline Bath. <i>Journal of ASTM International</i> , 2009, 6, 101790.	0.2	1
65	A New Process for the Production of Ferrotitanium from Titania Slag. <i>Canadian Metallurgical Quarterly</i> , 2007, 46, 17-23.	1.2	14
66	Comparison of the quenching capacities of hot salt and oil baths. <i>Metal Science and Heat Treatment</i> , 2006, 48, 193-198.	0.6	10
67	Production of high titania slag by Electro-Slag Crucible Melting (ESCM) process. <i>International Journal of Mineral Processing</i> , 2006, 78, 175-181.	2.6	33
68	THE EFFECT OF MECHANICAL MILLING ON THE CARBOTHERMIC REDUCTION OF Hematite. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2004, 25, 29-47.	5.0	8
69	On the Behaviour of Hematite and Graphite Blend during Ball Milling and Heating Up Reduction of Milled Mixture. <i>Steel Research International</i> , 2004, 75, 163-168.	1.8	0
70	Title is missing!. <i>Journal of Materials Synthesis and Processing</i> , 2002, 10, 113-120.	0.3	7
71	The Effect of Chemical Composition on Microstructure and Transformation Behavior of NiTi Shape Memory Alloy Prepared by Vacuum Arc Melting. <i>Journal of Biomimetics, Biomaterials, and Tissue Engineering</i> , 0, 1, 91-97.	0.7	1
72	Effect of Powder Particle Size and Substrate Hardening on the Formation of Nanostructured TiC Coating on AISI-D2 Steel by Mechanical Milling. <i>Advanced Materials Research</i> , 0, 829, 471-475.	0.3	0