

# Sh Raygan

## List of Publications by Year in descending order

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72  
papers

964  
citations

394421

19  
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526287

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74  
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74  
docs citations

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times ranked

881  
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#	ARTICLE	IF	CITATIONS
1	Determination of kinetic parameters and hydrogen desorption characteristics of MgH <sub>2</sub> -10wt% (9Ni-2Mg-1Y) nano-composite. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11910-11919.	7.1	66
2	Contributions of Rare Earth Element (La,Ce) Addition to the Impact Toughness of Low Carbon Cast Niobium Microalloyed Steels. <i>Metals and Materials International</i> , 2018, 24, 773-788.	3.4	51
3	Chloride-hypochlorite leaching of gold from a mechanically activated refractory sulfide concentrate. <i>Hydrometallurgy</i> , 2013, 138, 59-64.	4.3	43
4	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
5	Chloride-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
6	The Influence of La and Ce Addition on Inclusion Modification in Cast Niobium Microalloyed Steels. <i>Metals</i> , 2017, 7, 377.	2.3	35
7	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
8	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. <i>Powder Technology</i> , 2012, 221, 292-295.	4.2	33
9	Influence of thermomechanical treatment on microstructure and properties of electroslag remelted Cu-Cr-Zr alloy. <i>Materials &amp; Design</i> , 2013, 51, 688-694.	5.1	33
10	Capabilities of nickel zinc ferrite and its nanocomposite with CNT for adsorption of arsenic (V) ions from wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103493.	6.7	33
11	Magnetic property enhancement and characterization of nano-structured barium ferrite by mechano-thermal treatment. <i>Materials Characterization</i> , 2012, 63, 83-89.	4.4	27
12	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
13	Corrosion resistance improvement in Gas Tungsten Arc Welded 316L stainless steel joints through controlled preheat treatment. <i>Materials &amp; Design</i> , 2012, 34, 51-57.	5.1	25
14	Leaching of nickel from a secondary source by sulfuric acid. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 3922-3929.	6.7	24
15	Properties of rare earth added Cu-12wt%Al-3wt%Ni-0.6wt%Ti high temperature shape memory alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 370-381.	5.6	24
16	Simultaneous sulfide oxidation and gold leaching of a refractory gold concentrate by chloride-hypochlorite solution. <i>Minerals Engineering</i> , 2013, 50-51, 140-142.	4.3	23
17	Mechanochemical synthesis of W-Cu nanocomposites via in-situ co-reduction of the oxides. <i>Powder Technology</i> , 2013, 233, 208-214.	4.2	23
18	Effect of process control agents on synthesizing nano-structured 2Mg-9Ni-1Y 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

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19	Evolution of Pearlite Microstructure in Low-Carbon Cast Microalloyed Steel Due to the Addition of La and Ce. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 4495-4508.	2.2	20
20	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
21	Effect of rolling and annealing processes on the hardness and electrical conductivity values of Cu-13.5%Mn-4%Ni alloy. <i>Journal of Materials Processing Technology</i> , 2011, 211, 1810-1816.	6.3	16
22	A comparative study for synthesis methods of nano-structured (9Ni-2Mg-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
23	A New Process for the Production of Ferrotitanium from Titania Slag. <i>Canadian Metallurgical Quarterly</i> , 2007, 46, 17-23.	1.2	14
24	The chlorination kinetics of zirconium dioxide mixed with carbon black. <i>Thermochimica Acta</i> , 2011, 512, 93-97.	2.7	14
25	Properties of activated MgH <sub>2</sub> -mischmetal nanostructured composite produced by ball-milling. <i>Materials for Renewable and Sustainable Energy</i> , 2018, 7, 1.	3.6	14
26	Tensile behavior of normalized low carbon Nb-microalloyed steel in the presence of rare earth elements. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 749, 56-64.	5.6	14
27	Preparing TiC coating on AISI D2 steel using mechanical milling technique. <i>Powder Technology</i> , 2013, 246, 229-234.	4.2	13
28	Using response surface methodology to optimize the operating parameters in a top-spray fluidized bed coating system. <i>Surface and Coatings Technology</i> , 2018, 334, 43-49.	4.8	13
29	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. <i>Ceramics International</i> , 2012, 38, 3155-3159.	4.8	12
30	Combined effects of different heat treatments and Cu element on transformation behavior of NiTi orthodontic wires. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 298-302.	3.1	11
31	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
32	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
33	Effect of cold-working and aging processes on the microstructure, mechanical properties and electrical conductivity of Cu-13.5%Mn-4%Ni-1.2%Ti alloy. <i>Materials &amp; Design</i> , 2012, 41, 182-191.	5.1	10
34	Investigation on the Effects of Milling Atmosphere on Synthesis of Barium Ferrite/Magnetite Nanocomposite. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 519-524.	1.8	10
35	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
36	The effect of different carbon reducing agents in synthesizing barium ferrite/magnetite nanocomposites. <i>Materials Chemistry and Physics</i> , 2018, 219, 155-161.	4.0	10

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37	Effect of Aging on the Structure and Transformation Behavior of Cu <sup>12</sup> Al <sup>3.5</sup> Ni <sup>0.7</sup> Ti <sup>0.05</sup> RE High Temperature Shape Memory Alloy. <i>Metals and Materials International</i> , 2020, 26, 1354-1365.	3.4	10
38	Investigation of dehydrogenation performance and air stability of MgH <sub>2</sub> -PMMA nanostructured composite prepared by direct high-energy ball-milling. <i>Materials for Renewable and Sustainable Energy</i> , 2020, 9, 1.	3.6	9
39	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
40	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
41	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. <i>Materials and Manufacturing Processes</i> , 2012, 27, 1300-1305.	4.7	8
42	Title is missing!. <i>Journal of Materials Synthesis and Processing</i> , 2002, 10, 113-120.	0.3	7
43	Effect of mechanical activation on the production of SiC from silica sand. <i>International Journal of Refractory Metals and Hard Materials</i> , 2011, 29, 10-13.	3.8	7
44	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
45	Effect of chemical activation process on adsorption of As(V) ion from aqueous solution by mechano-thermally synthesized zinc ferrite nanopowder. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020, 27, 526-537.	4.9	6
46	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
47	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
48	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
49	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. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 2295-2302.	2.5	4
50	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
51	Exchange bias in barium ferrite/magnetite nanocomposites. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	4
52	SYNTHESIS OF BARIUM HEXAFERRITE/IRON OXIDES MAGNETIC NANO-COMPOSITES VIA HIGH ENERGY BALL MILLING AND SUBSEQUENT HEAT TREATMENT. <i>International Journal of Modern Physics Conference Series</i> , 2012, 05, 519-526.	0.7	3
53	Experimental Investigation and CFD Simulation of Top Spray Fluidized Bed Coating System. <i>Periodica Polytechnica: Chemical Engineering</i> , 2016, , .	1.1	3
54	Application of response surface methodology for modelling of TiC coating on AISI D2 steel using a mechanical milling technique. <i>Powder Metallurgy</i> , 2017, 60, 280-292.	1.7	3

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55	Synthesis of Niâ€“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
56	Leaching behavior of silver sulfide in the sodium thiosulfate-copper sulfate- sodium metabisulfite system. Minerals Engineering, 2021, 174, 107275.	4.3	3
57	Evaluation of Microstructure and Toughness of AISI D2 Steel by Bright Hardening in Comparison with Oil Quenching. , 2011, , .		2
58	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. Journal of Physics: Conference Series, 2011, 292, 012016.	0.4	2
59	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
60	The Effect of Chemical Composition on Microstructure and Transformation Behavior of NiTi Shape Memory Alloy Prepared by Vacuum Arc Melting. Journal of Biomimetics, Biomaterials, and Tissue Engineering, 0, 1, 91-97.	0.7	1
61	AN INVESTIGATION INTO MECHANOCHEMICAL SYNTHESIS OF NANOCRYSTALLINE HEXAFERRITE POWDER. International Journal of Modern Physics B, 2011, 25, 987-993.	2.0	1
62	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
63	The influence of alkaline salt bath quenching on the microstructure and mechanical properties of AISI D2 steel. Canadian Metallurgical Quarterly, 2014, 53, 88-92.	1.2	1
64	An Investigation on Quenching Performance of Hot Alkaline Bath. Journal of ASTM International, 2009, 6, 101790.	0.2	1
65	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
66	On the Behaviour of Hematite and Graphite Blend during Ball Milling and Heating Up Reduction of Milled Mixture. Steel Research International, 2004, 75, 163-168.	1.8	0
67	Production of magnetic nanocomposite by partial reduction of barium hexaferrite via mechanical ball milling. , 2009, , .		0
68	Effect of Powder Particle Size and Substrate Hardening on the Formation of Nanostructured TiC Coating on AISI-D2 Steel by Mechanical Milling. Advanced Materials Research, 0, 829, 471-475.	0.3	0
69	Production of Cu-Cr-Zr Alloy Using Electroslag Remelting Technique. International Journal of Engineering, Transactions B: Applications, 2013, 26, .	0.7	0
70	Effect of Synthesized MgNi <sub>4</sub> Y Catalyst on Hydrogen Desorption Properties of Milled MgH <sub>2</sub> . Metallurgical and Materials Transactions E, 2015, 2, 27-32.	0.5	0
71	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
72	Increased coercivity in recalcined barium ferriteâ€“magnetite nanocomposites. International Journal of Materials Research, 2021, 112, 384-390.	0.3	0