

# Hamid Reza Shahverdi

## List of Publications by Year in descending order

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27  
papers

1,246  
citations

759233  
12  
h-index

580821  
25  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1801  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of a Novel Severe Plastic Deformation Approach on Microstructural and Mechanical Characteristics of a Medium Manganese Advanced High Strength Steel. <i>Metals and Materials International</i> , 2022, 28, 1232-1245.	3.4	6
2	Enhancing mechanical properties of medium Mn advanced high-strength steel by inter-critical annealing: elimination of austenizing and quenching steps. <i>Ironmaking and Steelmaking</i> , 2020, 47, 1148-1160.	2.1	0
3	Optimization of mechanical properties using D-optimal factorial design of experiment: Electromagnetic stir casting process of A357Al-SiC nanocomposite. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 1183-1194.	4.2	8
4	Abrasive Wear Behavior and Its Relation with the Macro-indentation Fracture Toughness of an Fe-Based Super-Hard Hardfacing Deposit. <i>Tribology Letters</i> , 2019, 67, 1.	2.6	13
5	Development of New Third-Generation Medium Manganese Advanced High-Strength Steels Elaborating Hot-Rolling and Intercritical Annealing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4261-4274.	2.2	7
6	Effects of annealing on the tribological behavior of Zr60Cu10Al15Ni15 bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2019, 517, 127-136.	3.1	21
7	Second-phase hardening and rule of mixture, microbands and dislocation hardening in Fe 67.4% x Cr 15.5 Ni 14.1 Si 3.0 B x (x = 0, 2) alloy systems. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 715, 214-225.	5.6	8
8	Effects of Electromagnetic Frequency and SiC Nanoparticles on the Microstructure Refinement and Mechanical Properties of Al A357-1.5Åwt% SiC Nanocomposites. <i>International Journal of Metalcasting</i> , 2018, 12, 565-573.	1.9	10
9	Macro-indentation fracture mechanisms in a super-hard hardfacing Fe-based electrode. <i>Engineering Failure Analysis</i> , 2018, 92, 480-494.	4.0	7
10	Characterization of Fe49Cr18Mo7B16C4Nb6 high-entropy hardfacing layers produced by gas tungsten arc welding (GTAW) process. <i>Surface and Coatings Technology</i> , 2018, 352, 360-369.	4.8	27
11	Analysis of tensile deformation behavior of AM2B® advanced high-strength steel using electron back-scattered diffraction technique. <i>Materials Characterization</i> , 2017, 130, 64-73.	4.4	6
12	The effect of electrospark nickel interlayer thickness on the characteristics of Niobium to 410 stainless steel dissimilar laser welding. <i>Journal of Manufacturing Processes</i> , 2017, 30, 51-62.	5.9	4
13	Plastic Deformation Promoted by $\gamma$ -Ferrite-to-Austenite Transformation in the Heat-Treated Cold-Rolled Novel Advanced High-Strength Steel in FeCrNiBSi Alloy System. <i>ISIJ International</i> , 2017, 57, 1138-1140.	1.4	0
14	Microstructural evolution and mechanical properties of a novel FeCrNiBSi advanced high-strength steel: Slow, accelerated and fast casting cooling rates. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 668, 188-200.	5.6	13
15	Characteristics of electrospark deposition of a nickel-based alloy on 410 stainless steel for purpose of facilitating dissimilar metal welding by laser. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 2821-2828.	3.0	6
16	Fatigue crack growth behavior of a type of novel advanced high-strength steel in a FeCrNiBSi alloy system: A comparison between heat-treated cast and hot-rolled specimens. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 673, 280-287.	5.6	7
17	Effect of Boron Addition on Microstructural Evolution and Room-Temperature Mechanical Properties of Novel Fe66% x CrNiB x Si (x=0, 0.25, 0.50 and 0.75 WtPct) Advanced High-Strength Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 5423-5437.	2.2	9
18	First and third generations of advanced high-strength steels in a FeCrNiBSi system. <i>Journal of Materials Processing Technology</i> , 2016, 238, 383-394.	6.3	23

#	ARTICLE	IF	CITATIONS
19	Cuprous Oxide as a Potential Low-Cost Hole-Transport Material for Stable Perovskite Solar Cells. ChemSusChem, 2016, 9, 302-313.	6.8	122
20	New Scalable Cold-Roll Pressing for Post-treatment of Perovskite Microstructure in Perovskite Solar Cells. Journal of Physical Chemistry C, 2016, 120, 2520-2528.	3.1	29
21	New Physical Deposition Approach for Low Cost Inorganic Hole Transport Layer in Normal Architecture of Durable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 21807-21818.	8.0	80
22	Separation of the defect-free Fe <sub>3</sub> O <sub>4</sub> -Au core/shell fraction from magnetite-gold composite nanoparticles by an acid wash treatment. Journal of Nanostructure in Chemistry, 2013, 3, 1.	9.1	26
23	A Combined Hot Dip Aluminizing/Laser Alloying Treatment to Produce Iron-Rich Aluminides on Alloy Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3176-3184.	2.2	7
24	Study on feasibility of producing an amorphous surface layer of Fe <sub>49</sub> Cr <sub>18</sub> Mo <sub>7</sub> B <sub>16</sub> C <sub>4</sub> Nb <sub>3</sub> by pulsed Nd:YAG laser surface melting. Applied Surface Science, 2013, 264, 176-183.	6.1	24
25	Semi-Biosynthesis of Magnetite-Gold Composite Nanoparticles Using an Ethanol Extract of <i>Eucalyptus camaldulensis</i> and Study of the Surface Chemistry. Journal of Nanomaterials, 2009, 2009, 1-5.	2.7	29
26	Biological synthesis of very small silver nanoparticles by culture supernatant of Klebsiella pneumonia: The effects of visible-light irradiation and the liquid mixing process. Materials Research Bulletin, 2009, 44, 1415-1421.	5.2	150
27	Rapid synthesis of silver nanoparticles using culture supernatants of Enterobacteria: A novel biological approach. Process Biochemistry, 2007, 42, 919-923.	3.7	604