

# Hossein Edris

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

947  
citations

361413

20  
h-index

454955

30  
g-index

41  
all docs

41  
docs citations

41  
times ranked

782  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of hot corrosion behavior of plasma sprayed scandia and yttria co-stabilized nanostructured thermal barrier coatings in the presence of molten sulfate and vanadate salt. <i>Journal of the European Ceramic Society</i> , 2015, 35, 693-702.	5.7	92
2	Life time of new SYSZ thermal barrier coatings produced by plasma spraying method under thermal shock test and high temperature treatment. <i>Ceramics International</i> , 2014, 40, 1405-1414.	4.8	87
3	Comparative studies on synthesis of nanocrystalline Sc <sub>2</sub> O <sub>3</sub> –Y <sub>2</sub> O <sub>3</sub> doped zirconia (SYDZ) and YSZ solid solution via modified and classic Pechini method. <i>CrystEngComm</i> , 2013, 15, 5898.	2.6	67
4	Spray drying of nanometric SYSZ powders to obtain plasma sprayable nanostructured granules. <i>Ceramics International</i> , 2013, 39, 9447-9457.	4.8	44
5	Effect of SiC nanoparticles on the mechanical properties of steel-based nanocomposite produced by accumulative roll bonding process. <i>Materials &amp; Design</i> , 2014, 54, 168-173.	5.1	42
6	Comparison of microparticles and nanoparticles effects on the microstructure and mechanical properties of steel-based composite and nanocomposite fabricated via accumulative roll bonding process. <i>Materials &amp; Design</i> , 2014, 56, 359-367.	5.1	41
7	Effect of stacking fault energy on nanostructure formation under accumulative roll bonding (ARB) process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 578, 191-196.	5.6	38
8	The effect of APS parameter on the microstructural, mechanical and corrosion properties of plasma sprayed Ni-Ti-Al intermetallic coatings. <i>Surface and Coatings Technology</i> , 2017, 309, 959-968.	4.8	36
9	Preparation of nanostructured YSZ granules by the spray drying method. <i>Ceramics International</i> , 2014, 40, 3721-3729.	4.8	34
10	Fabrication of nanoparticle strengthened IF steel via ARB process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 583, 20-24.	5.6	30
11	Friction Stir Welding of Al-B4C Composite Fabricated by Accumulative Roll Bonding: Evaluation of Microstructure and Mechanical Behavior. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 835-846.	2.5	30
12	Strengthening mechanisms in nanostructured interstitial free steel deformed to high strain. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 656-662.	5.6	27
13	Plasma Sprayed NiAl Intermetallic Coating Produced with Mechanically Alloyed Powder. <i>Journal of Materials Science and Technology</i> , 2011, 27, 816-820.	10.7	25
14	Hemocompatible and Bioactive Heparin-Loaded PCL/P-TCP Fibrous Membranes for Bone Tissue Engineering. <i>Macromolecular Bioscience</i> , 2018, 18, e1800020.	4.1	25
15	Large scale synthesis of non-transformable tetragonal Sc <sub>2</sub> O <sub>3</sub> , Y <sub>2</sub> O <sub>3</sub> doped ZrO <sub>2</sub> nanopowders via the citric acid based gel method to obtain plasma sprayed coating. <i>Ceramics International</i> , 2013, 39, 7817-7829.	4.8	24
16	Diffusion behavior of hydrogen through thermally sprayed coating of 316L stainless steel. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 6409-6419.	7.1	24
17	The effect of alumina content on the mechanical properties of hybrid composites fabricated by ARB process. <i>Ceramics International</i> , 2014, 40, 10489-10498.	4.8	23
18	Synthesis of Scandia, Yttria Stabilized Zirconia (SYSZ) Nanoparticles by New Wet Chemistry Method. <i>Current Nanoscience</i> , 2012, 8, 767-775.	1.2	22

#	ARTICLE	IF	CITATIONS
19	Microstructural evolution of nanostructured steel-based composite fabricated by accumulative roll bonding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 298-306.	5.6	22
20	Hybrid composites produced by anodizing and accumulative roll bonding (ARB) processes. <i>Ceramics International</i> , 2014, 40, 10027-10035.	4.8	21
21	On the Achievement of Nanostructured Interstitial Free Steel by Four-Layer Accumulative Roll Bonding Process at Room Temperature. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 4013-4019.	2.2	19
22	Behavior of Mixed Grade during the Grade Transition for Different Conditions in the Slab Continuous Casting. <i>ISIJ International</i> , 2008, 48, 28-37.	1.4	17
23	Fabrication of Nano/Ultra-Fine Grained IF Steel via SPD Processes: a Review. <i>Transactions of the Indian Institute of Metals</i> , 2014, 67, 787-802.	1.5	16
24	Fluid Flow and Mixing in Non-Isothermal Water Model of Continuous Casting Tundish. <i>Journal of Iron and Steel Research International</i> , 2008, 15, 7-13.	2.8	14
25	Texture Development of ARB-Processed Steel-Based Nanocomposite. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 4436-4445.	2.5	14
26	Comparison of microparticles and nanoparticles effects on deformation texture of steel-based composite and nanocomposite fabricated by the ARB process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 607, 173-187.	5.6	14
27	The effect of SiC nanoparticles on deformation texture of ARB-processed steel-based nanocomposite. <i>Materials Characterization</i> , 2014, 93, 150-162.	4.4	12
28	Production of nanograin microstructure in steel nanocomposite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 638, 143-151.	5.6	12
29	Preparation and biocompatibility evaluation of bioactive glass“forsterite nanocomposite powder for oral bone defects treatment applications. <i>Materials Science and Engineering C</i> , 2015, 56, 409-416.	7.3	12
30	Investigation of the corrosion behavior of cathodic arc evaporated stainless steel coating in 3.5% NaCl. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017, 53, 902-909.	1.1	12
31	Effect of SiC Nanoparticles on Bond Strength of Cold Roll Bonded IF Steel. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 3348-3356.	2.5	11
32	Synthesis and Thermal Stability of Nontransformable Tetragonal (ZrO <sub>2</sub> ) <sub>0.96</sub> (REO <sub>1.5</sub> ) <sub>0.04</sub> (Re=Sc <sub>3</sub> , Y <sub>3</sub> ) Nanocrystals. <i>Defect and Diffusion Forum</i> , 0, 334-335, 60-64.	0.4	10
33	Evaluation of hydrogen permeation through standalone thermally sprayed coatings of AISI 316L stainless steel. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4657-4670.	7.1	9
34	Effect of Particles on Continuous and Discontinuous Recrystallization of Nanostructured Interstitial Free Steel. <i>Jom</i> , 2016, 68, 271-278.	1.9	5
35	Effect of Cold Rolling Parameters on Bond Strength of Ti Particle Embedded Al Strips. <i>Transactions of the Indian Institute of Metals</i> , 2018, 71, 2497-2504.	1.5	4
36	Comparison of Microparticles and Nanoparticles Effects on the Bonding of Roll Bonded IF Steel. <i>Transactions of the Indian Institute of Metals</i> , 2014, 67, 659-665.	1.5	3

#	ARTICLE	IF	CITATIONS
37	Effect of Friction Stir Welding on the Microstructure and Mechanical Properties of Super Duplex Stainless Steel. <i>Metallography, Microstructure, and Analysis</i> , 2021, 10, 383-391.	1.0	3
38	Effects of Annealing on the Fabrication of Al-TiAl <sub>3</sub> Nanocomposites Before and After Accumulative Roll Bonding and Evaluation of Strengthening Mechanisms. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 636-650.	2.9	2
39	WEAR ANALYSIS OF ALUMINUM-NICKEL INTERMETALLIC SURFACE COMPOSITE FABRICATED BY FRICTION STIR PROCESSING. <i>Surface Review and Letters</i> , 2021, 28, 2050057.	1.1	2
40	FABRICATION OF IN SITU NICKEL INTERMETALLIC COMPOUND DISPERSED ALUMINUM MATRIX COMPOSITES BY FRICTION STIR PROCESS. <i>Surface Review and Letters</i> , 2018, 25, 1950010.	1.1	1
41	EBSD Evaluation of Al- TiAl <sub>3</sub> Composites Manufactured Through CRB-Annealing-ARB and CRB-ARB-Annealing Methods. <i>Transactions of the Indian Institute of Metals</i> , 2022, 75, 113-131.	1.5	1