

# Hm Hdz-Garcia

## List of Publications by Year in descending order

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37  
papers

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758635

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752256

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37  
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37  
docs citations

37  
times ranked

677  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of hematite and ferrihydrite nanoparticles on germination and growth of maize seedlings. Saudi Journal of Biological Sciences, 2017, 24, 1547-1554.	1.8	81
2	Study of the properties of undoped and fluorine doped zinc oxide nanoparticles. Materials Letters, 2010, 64, 1493-1495.	1.3	43
3	Concrete/maghemite nanocomposites as novel adsorbents for arsenic removal. Journal of Molecular Structure, 2018, 1171, 9-16.	1.8	43
4	DFT study of small gas molecules adsorbed on undoped and N-, Si-, B-, and Al-doped graphene quantum dots. Theoretical Chemistry Accounts, 2019, 138, 1.	0.5	38
5	Icosahedral transition metal clusters (M <sub>13</sub> , M = Fe, Ni, and Cu) adsorbed on graphene quantum dots, a DFT study. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 110, 52-58.	1.3	25
6	Improved Mechanical Properties, Wear and Corrosion Resistance of 316L Steel by Homogeneous Chromium Nitride Layer Synthesis Using Plasma Nitriding. Journal of Materials Engineering and Performance, 2020, 29, 877-889.	1.2	23
7	Duplex plasma treatment of AISI D2 tool steel by combining plasma nitriding (with and without white) Tj ETQq1 1 0,784314 r <sub>g</sub> BT /Ov <sub>er</sub> l <sub>ay</sub>	2.2	23
8	Effects of Silicon Nanoparticles on the Transient Liquid Phase Bonding of 304 Stainless Steel. Journal of Materials Science and Technology, 2014, 30, 259-262.	5.6	20
9	Wear resistance of graphenic-nickel composite coating on austenitic stainless steel. Materials Letters, 2020, 281, 128769.	1.3	20
10	Cobalt-based PTA coatings, effects of addition of TiC nanoparticles. Vacuum, 2017, 143, 14-22.	1.6	17
11	304 stainless steel brazing incorporating tungsten nanoparticles. Journal of Materials Processing Technology, 2015, 215, 1-5.	3.1	15
12	A Hybrid Plasma Treatment of H13 Tool Steel by Combining Plasma Nitriding and Post-Oxidation. Journal of Materials Engineering and Performance, 2018, 27, 6118-6126.	1.2	12
13	Wear resistance of TiN or AlTiN nanostructured Ni-based hardfacing by PTA under pin on disc test. Wear, 2019, 426-427, 1584-1593.	1.5	12
14	Characterisation of PTA processed overlays without and with WC nanoparticles. Surface Engineering, 2017, 33, 857-865.	1.1	11
15	Fe<sub>2</sub>O<sub>3</sub> Thin Films Prepared by Ultrasonic Spray Pyrolysis. Materials Science Forum, 0, 644, 105-108.	0.3	8
16	Effect of graphene oxide on wear resistance of polyester resin electrostatically deposited on steel sheets. Wear, 2019, 426-427, 296-301.	1.5	8
17	Analysis of Weld Bead Parameters of Overlay Deposited on D2 Steel Components by Plasma Transferred Arc (PTA) Process. Materials Science Forum, 0, 755, 39-45.	0.3	7
18	Tribological study of a thin TiO <sub>2</sub> nanolayer coating on 316L steel. Wear, 2017, 376-377, 1702-1706.	1.5	7

#	ARTICLE	IF	CITATIONS
19	Microstructural effects on the wear behavior of a biomedical as-cast Co-27Cr-5Mo-0.25C alloy exposed to pulsed laser melting. Journal of Biomedical Materials Research - Part A, 2014, 102, 2008-2016.	2.1	6
20	Tribological performance of Ti nanolayer coating post plasma nitriding treatment on Co based alloy. Wear, 2021, 477, 203798.	1.5	5
21	Magnesium Removal from Molten Al-Si Alloys Using Zeolite. Canadian Metallurgical Quarterly, 2010, 49, 163-170.	0.4	4
22	Growth of a graphenic-Co composite coating on type-304 stainless steel. Vacuum, 2019, 163, 324-327.	1.6	4
23	Effect of the surface texturing treatment with Nd:YAG laser on the wear resistance of CoCr alloy. MRS Advances, 2019, 4, 3031-3039.	0.5	4
24	Aging Thermal Treatment in the Inconel 725 Braze Incorporating Tungsten Nanoparticles. Journal of Nanomaterials, 2016, 2016, 1-7.	1.5	3
25	Elimination of Al <sub>4</sub> C <sub>3</sub> Phase in Al/SiC/P Composites by HSYCVD. Materials Science Forum, 0, 755, 9-14.	0.3	2
26	Effects of tic Nanostructured Overlays on D2 Steels by PTA. MRS Advances, 2017, 2, 4041-4047.	0.5	1
27	Effect of depth on the weldability of ferritic steels in simulated environments joined by wet welding. Welding International, 2018, 32, 561-569.	0.3	1
28	Sputtered transparent conducting graphene films on iron oxide coated glass. Journal of Materials Science: Materials in Electronics, 2019, 30, 4310-4317.	1.1	1
29	Metallurgical Interaction among BNi-9 and Waspaloy, FSX-414 or 304-Type Stainless Steel under TLP Cycle. Metals, 2020, 10, 306.	1.0	1
30	EFFECT OF MgAl <sub>2</sub> O <sub>3</sub> ON THE GROWTH OF $\hat{\Gamma}^2$ -Si <sub>3</sub> N <sub>4</sub> PREPARED BY CARBOTHERMAL REDUCTION BY NITRIDING. Ceramics - Silikaty, 2020, , 271-277.	0.2	1
31	Characterization on Fracture Surfaces of 304 Stainless Steels Joined by Brazing Using Silicon Nanoparticles. Materials Research Society Symposia Proceedings, 2012, 1481, 119-126.	0.1	0
32	Characterization of Metallurgical Defects in the Melt Zone of 304L Steel Tubes Manufactured by GTAW Process. Materials Research Society Symposia Proceedings, 2012, 1372, 41.	0.1	0
33	Effects of Si and Ni nanoparticles in Brazing process on fracture surfaces of 304 stainless steels. Materials Research Society Symposia Proceedings, 2012, 1381, 1.	0.1	0
34	Magnesium Removal from an Aluminum A-332 Molten Alloy Using Enriched Zeolite with Nanoparticles of SiO <sub>2</sub> . Advances in Materials Science and Engineering, 2014, 2014, 1-7.	1.0	0
35	Estudio del mecanismo de eliminaci3n demagnesio de aleaciones Al-Si en estado l3quido mediante inyecci3n de minerales base s3lice. Revista De Metalurgia, 2010, 46, 351-359.	0.1	0
36	Efecto de la Profundidad sobre la Soldabilidad de Aceros Ferr3ticos en Ambientes Simulados Unidos por Soldadura H3meda. Soldagem E Inspecao, 2016, 21, 126-136.	0.6	0

#	ARTICLE	IF	CITATIONS
37	A Revamped Classification of Composite Materials. , 2018, , .		0