Humberto Gomez Vega

List of Publications by Year
in descending order

31 papers	924 citations	840776 11 h-index	677142 22 g-index
31 all docs	31 docs citations	31 times ranked	1587 citing authors

#	Article	IF	Citations
1	An Enhanced Fuel Cell Dynamic Model With Electrochemical Phenomena Parameterization as Test Bed for Control System Analysis. Journal of Electrochemical Energy Conversion and Storage, 2019, 16, .	2.1	5
2	Nanogold â€“ IgY antibodies. An immunoconjugated for the detection of house dust mite (Dermatophagoides) allergens. Journal of Immunological Methods, 2019, 464, 15-21.	1.4	8
3	Optical and Structural Characterization of TiO-Zn-V Thin Films Synthesized Using the Solâ€“Gel Method. Journal of Electronic Materials, 2019, 48, 271-277.	2.2	1
4	Functional characterisation of mechanical joints to facilitate its selection during the design of open architecture products. International Journal of Production Research, 2018, 56, 7390-7404.	7.5	5
5	Failure assessment of a weld-cracked mining excavator boom. Engineering Failure Analysis, 2018, 90, 47-63.	4.0	4
6	Stabilization of Graphene Dispersions by Cellulose Nanocrystals Colloids. , 2018, , .		0
7	Cellulose Aerogels for Thermal Insulation in Buildings: Trends and Challenges. Coatings, 2018, 8, 345.	2.6	64
8	Critical and Comprehensive Evaluation of High Pressure Pipeline Rehabilitation Methods and Patents for Seeking Innovation Trends. Recent Patents on Engineering, 2018, 12, 46-55.	0.4	2
9	Systematic study of inorganic functionalization of ZnO nanorods by Sol-Gel method. Journal of Physics: Conference Series, 2017, 786, 012022.	0.4	2
10	Review and Analysis of Repair/Rehabilitation Methods for Natural Gas Pipelines. , 2017, , .		2
11	CFD Multiphysics Modeling and Performance Evaluation of PEM Fuel Cells. , 2017, , .		1
12	Cellulose Nanocrystals Assisted Preparation of Electrochemical Energy Storage Electrodes. , 2017, , .		0
13	Reduced Model for a Thermal Analysis of a Flat Plate Solar Collector With Thermal Energy Storage Using Phase Change Material (PCM). , 2015, , .		2
14	MPC Control of Dynamic PEM Fuel Cell System. , 2015, , .		1
15	Synthesis and Characterization of Conjugated-Polymer/Graphene/Nanodiamond Nanocomposite for Electrochemical Energy Storage. , 2015, , .		0
16	Analysis of catastrophic failure of axial fan blades exposed to high relative humidity and saline environment. Engineering Failure Analysis, 2015, 54, 74-89.	4.0	7
17	Coating thickness and interlayer effects on CVD-diamond film adhesion to cobalt-cemented tungsten carbides. Surface and Coatings Technology, 2013, 215, 272-279.	4.8	37
18	Life Cycle Analysis of Diamond Coating of Machining Tools. , 2012, , .		3

#	Article	IF	Citations
19	Cellular and in vitro toxicity of nanodiamond-polyaniline composites in mammalian and bacterial cell. Materials Science and Engineering C, 2012, 32, 594-598.	7.3	33
20	Adhesion analysis and dry machining performance of CVD diamond coatings deposited on surface modified WCâ€“Co turning inserts. Journal of Materials Processing Technology, 2012, 212, 523-533.	6.3	57
21	Graphene-Polythiophene Nanocomposite as Novel Supercapacitor Electrode Material. Journal of New Materials for Electrochemical Systems, 2012, 15, 89-95.	0.6	15
22	Novel Nanohybrid Structured Regioregular Polyhexylthiophene Blend Films for Photoelectrochemical Energy Applications. Journal of Physical Chemistry C, 2011, 115, 21987-21995.	3.1	13
23	GOX-functionalized nanodiamond films for electrochemical biosensor. Materials Science and Engineering C, 2011, 31, 1115-1120.	7.3	30
24	Graphene-conducting polymer nanocomposite as novel electrode for supercapacitors. Journal of Power Sources, 2011, 196, 4102-4108.	7.8	336
25	Glucose Oxidase-Functionalized Nanodiamond Films for Biosensor Application. Materials Research Society Symposia Proceedings, 2011, 1282, 149.	0.1	0
26	Supercapacitor Based on Graphene â€“ Polyaniline Nanocomposite Electrode. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	1
27	Graphene Films and Ribbons for Sensing of O₂, and 100 ppm of CO and NO₂ in Practical Conditions. Journal of Physical Chemistry C, 2010, 114, 6610-6613.	3.1	201
28	Evaluating the chemio-physio properties of novel zinc oxideâ€“polyaniline nanocomposite polymer films. Polymer Journal, 2010, 42, 935-940.	2.7	26
29	Novel Synthesis, Characterization, and Corrosion Inhibition Properties of Nanodiamondâ^'Polyaniline Films. Journal of Physical Chemistry C, 2010, 114, 18797-18804.	3.1	65
30	Study of the Adhesion and Biocompatibility of Nanocrystalline Diamond (NCD) Films on 3C-SiC Substrates. Materials Research Society Symposia Proceedings, 2009, 1203, 1.	0.1	2
31	Structural-property relationship of nanocrystalline diamond films and its applications. International Journal of Nanomanufacturing, 2009, 4, 317.	0.3	1