

# Erick A Juarez-Arellano

## List of Publications by Year in descending order

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68  
papers

964  
citations

516215

16  
h-index

476904

29  
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71  
docs citations

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times ranked

1025  
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphological, structural and cytotoxic behavior of starch/silver nanocomposites with synthesized silver nanoparticles using Stevia rebaudiana extracts. <i>Polymer Bulletin</i> , 2021, 78, 1683-1701.	1.7	5
2	Planetary ball-mill as a versatile tool to controlled potato starch modification to broaden its industrial applications. <i>Food Research International</i> , 2021, 140, 109870.	2.9	20
3	Pt <sub>2</sub> AuCuNiSn, a new noble metal single-phase high entropy alloy. <i>Journal of Solid State Chemistry</i> , 2021, 294, 121837.	1.4	3
4	Rhenium borides (Re <sub>3</sub> B and ReB <sub>2</sub> ) mechanosynthesis and their use as a catalyst for H <sub>2</sub> production from biomass pyrolysis. <i>Materials Research Bulletin</i> , 2021, 137, 111180.	2.7	2
5	Controlled modification of sodium montmorillonite clay by a planetary ball-mill as a versatile tool to tune its properties. <i>Advanced Powder Technology</i> , 2021, 32, 591-599.	2.0	4
6	Performance Assessment of Magnesium Anodes Manufactured by Sintering Process. <i>Metals</i> , 2021, 11, 406.	1.0	2
7	Unnamed Pt(Cu <sub>0.67</sub> Sn <sub>0.33</sub> ) from the Bolshoy Khailyk River, Western Sayans, Russia, and a Review of Related Compounds and Solid Solutions. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1240.	0.8	0
8	Melt processing of ethylene-vinyl acetate/banana starch/Cloisite 20A organoclay nanocomposite films: structural, thermal and composting behavior. <i>Iranian Polymer Journal (English Edition)</i> , 2020, 29, 723-733.	1.3	3
9	Synthesis and characterization of Pt(Cu <sub>0.67</sub> Sn <sub>0.33</sub> ). <i>Solid State Sciences</i> , 2020, 105, 106282.	1.5	1
10	Mechanosynthesis of metastable cubic $\gamma$ -Ta <sub>1-x</sub> N. <i>Ceramics International</i> , 2020, 46, 23049-23058.	2.3	4
11	Fabrication of ball-milled MgO-Mg(OH) <sub>2</sub> -hydromagnesite composites and evaluation as an air-stable hydrogen storage material. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 12949-12960.	3.8	16
12	Effect of ball to powder ratio on the mechanosynthesis of Re <sub>2</sub> C and its compressibility. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151867.	2.8	11
13	High-energy ball milling treatment of soybean for <i>Bacillus thuringiensis</i> culture media. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 296-301.	1.1	5
14	Degradation of rhenium carbide obtained by mechanochemical synthesis at oxygen and moisture environmental conditions. <i>Materials Chemistry and Physics</i> , 2019, 229, 15-21.	2.0	4
15	Mechanism to H <sub>2</sub> production on rhenium carbide from pyrolysis of coconut shell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2784-2796.	3.8	14
16	Mechano-Hydrolysis of Non-Conventional Substrates for Biofuel Culture Media. <i>Starch/Staerke</i> , 2019, 71, 1800206.	1.1	1
17	Chemical stability of superhard rhenium diboride at oxygen and moisture ambient environmental conditions prepared by mechanical milling. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3148-3155.	1.9	9
18	Microwave Assisted DNA Hydrolysis for Global Methylation Analysis by Gas Chromatography/Tandem Mass Spectrometry. <i>Journal of the Mexican Chemical Society</i> , 2018, 62, .	0.2	1

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19	Synthesis and Characterization of Mg Obtained by Mechanical Alloying and Doped with Al <sub>2</sub> O <sub>3</sub> and Y <sub>2</sub> O <sub>3</sub> . <i>Microscopy and Microanalysis</i> , 2017, 23, 584-585.	0.2	1
20	Effect of cross-linking on the physicochemical, functional and digestibility properties of starch from Macho ( <i>Musa paradisiaca</i> L.) and Roatan ( <i>Musa sapientum</i> L.) banana varieties. <i>Starch/Staerke</i> , 2016, 68, 584-592.	1.1	8
21	Defect states and morphological evolution in mechanically processed ZnO + xC nanosystems as studied by EPR and photoluminescence spectroscopy. <i>RSC Advances</i> , 2016, 6, 58709-58722.	1.7	9
22	Mechanosynthesis of rhenium carbide at ambient pressure and temperature. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016, 55, 11-15.	1.7	20
23	Surface modification of carbon steel reinforcement of concrete. <i>Anti-Corrosion Methods and Materials</i> , 2015, 62, 69-76.	0.6	1
24	EPR detection of sphalerite ZnO in mechanically treated ZnO+0.1C nanosystem. <i>Materials Science in Semiconductor Processing</i> , 2015, 39, 775-780.	1.9	4
25	Origin and evolution of paramagnetic states in mixtures of ZnO and carbon nanoparticles during intensive mechanical treatment. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	7
26	Synthesis of TaC and Ta <sub>2</sub> C from tantalum and graphite in the laser-heated diamond anvil cell. <i>Science Bulletin</i> , 2014, 59, 5283-5289.	1.7	2
27	Layer-by-layer laser synthesis of composite ceramics in the system Al-Ti-Y-O. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1611, 55-60.	0.1	0
28	Immobilization of TiO <sub>2</sub> nanoparticles on montmorillonite clay and its effect on the morphology of natural rubber nanocomposites. <i>Polymer Bulletin</i> , 2014, 71, 1295-1313.	1.7	21
29	In situ observation of self-propagating high temperature syntheses of Ta <sub>5</sub> Si <sub>3</sub> , Ti <sub>5</sub> Si <sub>3</sub> and TiB <sub>2</sub> by proton and X-ray radiography. <i>Solid State Sciences</i> , 2013, 22, 33-42.	1.5	11
30	In situ study of the formation of rhenium borides from the elements at high-(p, T) conditions: Extreme incompressibility of Re <sub>7</sub> B <sub>3</sub> and formation of new phases. <i>Solid State Sciences</i> , 2013, 25, 85-92.	1.5	6
31	In situ study of the high pressure high-temperature stability field of TaN and of the compressibilities of $\delta$ -TaN and TaON. <i>High Pressure Research</i> , 2013, 33, 633-641.	0.4	15
32	Laser Synthesis of Composite Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> Ceramics from Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> Powder Mixtures. <i>Journal of Advanced Microscopy Research</i> , 2013, 8, 186-194.	0.3	1
33	Directed laser processing of compacted powder mixtures Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> . <i>Science of Sintering</i> , 2013, 45, 247-259.	0.5	2
34	Phase transitions in KIO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , 2012, 24, 325401.	0.7	12
35	High-pressure behavior and equations of state of the cobaltates YBaCo <sub>4</sub> O <sub>7</sub> . <a href="http://www.elsevier.com/xml/ja/dtd">http://www.elsevier.com/xml/ja/dtd</a>	1.4	4
36	In situ observation of the reaction of scandium and carbon by neutron diffraction. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1-5.	2.8	20

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37	Kinetics of physico-chemical processes during intensive mechanical processing of ZnOâ€“MnO <sub>2</sub> powder mixture. Journal of Magnetism and Magnetic Materials, 2011, 323, 2429-2435.	1.0	8
38	Synthesis of Binary Transition Metal Nitrides, Carbides and Borides from the Elements in the Laser-Heated Diamond Anvil Cell and Their Structure-Property Relations. Materials, 2011, 4, 1648-1692.	1.3	100
39	In situ synchrotron X-ray diffraction study of the formation of TaB <sub>2</sub> from the elements in a laser heated diamond anvil cell. Solid State Sciences, 2010, 12, 2059-2064.	1.5	15
40	Features of formation of channels during laser treatment of AlN ceramics. Optics and Laser Technology, 2010, 42, 172-179.	2.2	18
41	Formation of scandium carbides and scandium oxycarbide from the elements at high-(P, T) conditions. Journal of Solid State Chemistry, 2010, 183, 975-983.	1.4	15
42	Persistence of the stereochemical activity of the Bi <sup>3+</sup> lone electron pair in Bi <sub>2</sub> Ga <sub>4</sub> O <sub>9</sub> up to 50â€“GPa and crystal structure of the high-pressure phase. Acta Crystallographica Section B: Structural Science, 2010, 66, 323-337.	1.8	27
43	The layer by layer selective laser synthesis of ruby. Science of Sintering, 2010, 42, 3-13.	0.5	3
44	Microstructural evolution in BaOâ€“Y <sub>2</sub> O <sub>3</sub> â€“Co <sub>3</sub> O <sub>4</sub> mixtures during high-energy milling and its role in the formation of YxBa <sub>1-x</sub> Co <sub>3</sub> and YBaCo <sub>4</sub> O <sub>7</sub> . Journal of Alloys and Compounds, 2010, 492, 368-372.	2.8	13
45	In situ observation of the reaction of tantalum with nitrogen in a laser heated diamond anvil cell. Journal of Alloys and Compounds, 2010, 502, 5-12.	2.8	48
46	Novel Rhenium Nitrides. Physical Review Letters, 2010, 105, 085504.	2.9	148
47	Synthesis and Structureâ€“Property Relations of Binary Transition Metal Carbides at Extreme Conditions. NATO Science for Peace and Security Series B: Physics and Biophysics, 2010, , 397-406.	0.2	0
48	Single-crystal structure of $\text{HoBaCo}_4\text{B}_7\text{N}_3$ at ambient conditions, at low temperature, and at high pressure. Physical Review B, 2009, 79, .	1.4	17
49	High-pressure behavior of the ternary bismuth oxides , and. Journal of Solid State Chemistry, 2009, 182, 767-777.	1.4	30
50	Reaction of titanium with carbon in a laser heated diamond anvil cell and reevaluation of a proposed pressure-induced structural phase transition of TiC. Journal of Alloys and Compounds, 2009, 478, 392-397.	2.8	32
51	Stability field of the high-(P, T) Re <sub>2</sub> C phase and properties of an analogous osmium carbide phase. Journal of Alloys and Compounds, 2009, 481, 577-581.	2.8	50
52	Virtual crystal approximation study of nitridosilicates and oxonitridoaluminosilicates. Journal of Physics and Chemistry of Solids, 2008, 69, 1861-1868.	1.9	12
53	Reaction of rhenium and carbon at high pressures and temperatures. Zeitschrift Fur Kristallographie - Crystalline Materials, 2008, 223, 492-501.	0.4	40
54	Single-crystal structure refinement of diaspore at 50 GPa. American Mineralogist, 2007, 92, 1640-1644.	0.9	30

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55	Coupled Al/Si and O/N order/disorder in BaYb[Si <sub>4</sub> Al <sub>x</sub> O <sub>x</sub> N <sub>7</sub> ]silicon: neutron powder diffraction and Monte Carlo simulations. <i>Zeitschrift für Kristallographie</i> , 2007, 222, .	1.1	11
56	Incorporation of vanadium(V) into the rutile-type phase of GeO <sub>2</sub> : the solid solution Ge <sub>0.74</sub> V <sub>0.21</sub> As <sub>0.05</sub> O <sub>2</sub> . <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, i99-i101.	0.2	0
57	Compressibility of the nitridosilicate SrYb[Si <sub>4</sub> N <sub>7</sub> ] and the oxonitridoaluminosilicates MYb[Si <sub>4</sub> Al <sub>x</sub> O <sub>x</sub> N <sub>7</sub> ] (x = 2; M = Sr, Ba). <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 424-430.	1.8	6
58	Structural characterization of SmMn <sub>2</sub> GeO <sub>7</sub> single microcrystals by electron microscopy. <i>Acta Crystallographica Section B: Structural Science</i> , 2005, 61, 11-16.	1.8	2
59	Crystallochemistry of Thortveitite-Like and Thortveitite-Type Compounds. <i>Materials Research Society Symposia Proceedings</i> , 2004, 848, 300.	0.1	14
60	In <sub>1.06</sub> Ho <sub>0.94</sub> Ge <sub>2</sub> O <sub>7</sub> : a thortveitite-type compound. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2004, 60, i14-i16.	0.4	7
61	Micrometric single crystal germanates obtained using a double-spherical mirror furnace. <i>Crystal Research and Technology</i> , 2004, 39, 833-839.	0.6	2
62	In <sub>1.06</sub> Ho <sub>0.94</sub> Ge <sub>2</sub> O <sub>7</sub> : A Thortveitite-Type Compound.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
63	Micrometric Single Crystal Germanates Obtained Using a Double-Spherical Mirror Furnace.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
64	In <sub>1.08</sub> Gd <sub>0.92</sub> Ge <sub>2</sub> O <sub>7</sub> : A New Member of the Thortveitite Family.. <i>ChemInform</i> , 2003, 34, no-no.	0.1	0
65	Synthesis, crystal structure, and preliminary study of luminescent properties of InTbGe <sub>2</sub> O <sub>7</sub> . <i>Journal of Solid State Chemistry</i> , 2003, 170, 418-423.	1.4	18
66	Transmission Electron Microscopy Study of a New Compound in the System Sm-Mn-Ge-O. <i>Microscopy and Microanalysis</i> , 2003, 9, 868-869.	0.2	0
67	The crystal structure of InYGe <sub>2</sub> O <sub>7</sub> germanate. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2002, 217, 201-204.	0.4	23
68	In <sub>1.08</sub> Gd <sub>0.92</sub> Ge <sub>2</sub> O <sub>7</sub> : a new member of the thortveitite family. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2002, 58, i135-i137.	0.4	6