

Erick A Juarez-Arellano

List of Publications by Year in descending order

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68
papers

964
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516215

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29
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71
all docs

71
docs citations

71
times ranked

1025
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Rhenium Nitrides. <i>Physical Review Letters</i> , 2010, 105, 085504.	2.9	148
2	Synthesis of Binary Transition Metal Nitrides, Carbides and Borides from the Elements in the Laser-Heated Diamond Anvil Cell and Their Structure-Property Relations. <i>Materials</i> , 2011, 4, 1648-1692.	1.3	100
3	Stability field of the high-(P, T) Re ₂ C phase and properties of an analogous osmium carbide phase. <i>Journal of Alloys and Compounds</i> , 2009, 481, 577-581.	2.8	50
4	In situ observation of the reaction of tantalum with nitrogen in a laser heated diamond anvil cell. <i>Journal of Alloys and Compounds</i> , 2010, 502, 5-12.	2.8	48
5	Reaction of rhenium and carbon at high pressures and temperatures. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2008, 223, 492-501.	0.4	40
6	Single-crystal structure of $\text{HoBaCo}_4\text{O}_{14}$ at ambient conditions, at low temperature, and at high pressure. <i>Physical Review B</i> , 2009, 79, .	1.4	37
7	Reaction of titanium with carbon in a laser heated diamond anvil cell and reevaluation of a proposed pressure-induced structural phase transition of TiC. <i>Journal of Alloys and Compounds</i> , 2009, 478, 392-397.	2.8	32
8	Single-crystal structure refinement of diasporite at 50 GPa. <i>American Mineralogist</i> , 2007, 92, 1640-1644.	0.9	30
9	High-pressure behavior of the ternary bismuth oxides, and. <i>Journal of Solid State Chemistry</i> , 2009, 182, 767-777.	1.4	30
10	Persistence of the stereochemical activity of the Bi ³⁺ lone electron pair in Bi ₂ Ga ₄ O ₉ up to 50 GPa and crystal structure of the high-pressure phase. <i>Acta Crystallographica Section B: Structural Science</i> , 2010, 66, 323-337.	1.8	27
11	The crystal structure of InYGe ₂ O ₇ germanate. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2002, 217, 201-204.	0.4	23
12	Immobilization of TiO ₂ 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
13	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
14	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
15	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
16	Synthesis, crystal structure, and preliminary study of luminescent properties of InTbGe ₂ O ₇ . <i>Journal of Solid State Chemistry</i> , 2003, 170, 418-423.	1.4	18
17	Features of formation of channels during laser treatment of AlN ceramics. <i>Optics and Laser Technology</i> , 2010, 42, 172-179.	2.2	18
18	Fabrication of ball-milled MgO/Mg(OH) ₂ -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

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19	In situ synchrotron X-ray diffraction study of the formation of TaB ₂ from the elements in a laser heated diamond anvil cell. <i>Solid State Sciences</i> , 2010, 12, 2059-2064.	1.5	15
20	Formation of scandium carbides and scandium oxycarbide from the elements at high-(P, T) conditions. <i>Journal of Solid State Chemistry</i> , 2010, 183, 975-983.	1.4	15
21	In situ study of the high pressure high-temperature stability field of TaN and of the compressibilities of $\sqrt{3}$ -TaN and TaON. <i>High Pressure Research</i> , 2013, 33, 633-641.	0.4	15
22	Crystallochemistry of Thortveitite-Like and Thortveitite-Type Compounds. <i>Materials Research Society Symposia Proceedings</i> , 2004, 848, 300.	0.1	14
23	Mechanism to H ₂ production on rhenium carbide from pyrolysis of coconut shell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2784-2796.	3.8	14
24	Microstructural evolution in BaO \cdot Y ₂ O ₃ \cdot Co ₃ O ₄ mixtures during high-energy milling and its role in the formation of Y _x Ba _{1-x} Co ₃ O ₇ and YBaCo ₄ O ₇ . <i>Journal of Alloys and Compounds</i> , 2010, 492, 368-372.	2.8	13
25	Virtual crystal approximation study of nitridosilicates and oxonitridoaluminosilicates. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1861-1868.	1.9	12
26	Phase transitions in KIO ₃ . <i>Journal of Physics Condensed Matter</i> , 2012, 24, 325401.	0.7	12
27	Coupled Al/Si and O/N order/disorder in BaYb[Si ₄ \cdot xAl _x O _x N ₇ \cdot x]silicon: neutron powder diffraction and Monte Carlo simulations. <i>Zeitschrift für Kristallographie</i> , 2007, 222, .	1.1	11
28	In situ observation of self-propagating high temperature syntheses of Ta ₅ Si ₃ , Ti ₅ Si ₃ and TiB ₂ by proton and X-ray radiography. <i>Solid State Sciences</i> , 2013, 22, 33-42.	1.5	11
29	Effect of ball to powder ratio on the mechanosynthesis of Re ₂ C and its compressibility. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151867.	2.8	11
30	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
31	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
32	Kinetics of physico-chemical processes during intensive mechanical processing of ZnO \cdot MnO ₂ powder mixture. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 2429-2435.	1.0	8
33	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/Stärke</i> , 2016, 68, 584-592.	1.1	8
34	In _{1.06} Ho _{0.94} Ge ₂ O ₇ : a thortveitite-type compound. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2004, 60, i14-i16.	0.4	7
35	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
36	In _{1.08} Gd _{0.92} Ge ₂ O ₇ : a new member of the thortveitite family. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2002, 58, i135-i137.	0.4	6

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37	Compressibility of the nitridosilicate SrYb[Si ₄ N ₇] and the oxonitridoaluminosilicates MYb[Si ₄ Al _x O _x N _{7-x}] (x = 2; M = Sr, Ba). Acta Crystallographica Section B: Structural Science, 2006, 62, 424-430.	1.8	6
38	In situ study of the formation of rhenium borides from the elements at high-(p, T) conditions: Extreme incompressibility of Re ₇ B ₃ and formation of new phases. Solid State Sciences, 2013, 25, 85-92.	1.5	6
39	High-energy ball milling treatment of soybean for Bacillus thuringiensis culture media. Journal of Bioscience and Bioengineering, 2019, 128, 296-301.	1.1	5
40	Morphological, structural and cytotoxic behavior of starch/silver nanocomposites with synthesized silver nanoparticles using Stevia rebaudiana extracts. Polymer Bulletin, 2021, 78, 1683-1701.	1.7	5
41	High-pressure behavior and equations of state of the cobaltates BaCo ₄ O ₇ . altimg= si0032.gif overflow= scroll xmlns:xocs= http://www.elsevier.com/xml/xocs/dtd xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd"/>	1.4	4
42	EPR detection of sphalerite ZnO in mechanically treated ZnO+0.1C nanosystem. Materials Science in Semiconductor Processing, 2015, 39, 775-780.	1.9	4
43	Degradation of rhenium carbide obtained by mechanochemical synthesis at oxygen and moisture environmental conditions. Materials Chemistry and Physics, 2019, 229, 15-21.	2.0	4
44	Mechanosynthesis of metastable cubic $\hat{\Gamma}$ -Ta _{1-x} N. Ceramics International, 2020, 46, 23049-23058.	2.3	4
45	Controlled modification of sodium montmorillonite clay by a planetary ball-mill as a versatile tool to tune its properties. Advanced Powder Technology, 2021, 32, 591-599.	2.0	4
46	The layer by layer selective laser synthesis of ruby. Science of Sintering, 2010, 42, 3-13.	0.5	3
47	Melt processing of ethylene vinyl acetate/banana starch/Cloisite 20A organoclay nanocomposite films: structural, thermal and composting behavior. Iranian Polymer Journal (English Edition), 2020, 29, 723-733.	1.3	3
48	Pt ₂ AuCuNiSn, a new noble metal single-phase high entropy alloy. Journal of Solid State Chemistry, 2021, 294, 121837.	1.4	3
49	Micrometric single crystal germanates obtained using a double-spherical mirror furnace. Crystal Research and Technology, 2004, 39, 833-839.	0.6	2
50	Structural characterization of SmMn ₂ GeO ₇ single microcrystals by electron microscopy. Acta Crystallographica Section B: Structural Science, 2005, 61, 11-16.	1.8	2
51	Synthesis of TaC and Ta ₂ C from tantalum and graphite in the laser-heated diamond anvil cell. Science Bulletin, 2014, 59, 5283-5289.	1.7	2
52	Rhenium borides (Re ₃ B and ReB ₂) mechanosynthesis and their use as a catalyst for H ₂ production from biomass pyrolysis. Materials Research Bulletin, 2021, 137, 111180.	2.7	2
53	Performance Assessment of Magnesium Anodes Manufactured by Sintering Process. Metals, 2021, 11, 406.	1.0	2
54	Directed laser processing of compacted powder mixtures Al ₂ O ₃ -TiO ₂ -Y ₂ O ₃ . Science of Sintering, 2013, 45, 247-259.	0.5	2

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55	Surface modification of carbon steel reinforcement of concrete. <i>Anti-Corrosion Methods and Materials</i> , 2015, 62, 69-76.	0.6	1
56	Synthesis and Characterization of Mg Obtained by Mechanical Alloying and Doped with Al ₂ O ₃ and Y ₂ O ₃ . <i>Microscopy and Microanalysis</i> , 2017, 23, 584-585.	0.2	1
57	Mechano-Hydrolysis of Non-Conventional Substrates for Biofuel Culture Media. <i>Starch/Staerke</i> , 2019, 71, 1800206.	1.1	1
58	Synthesis and characterization of Pt(Cu _{0.67} Sn _{0.33}). <i>Solid State Sciences</i> , 2020, 105, 106282.	1.5	1
59	Laser Synthesis of Composite Al ₂ O ₃ /TiO ₂ /Y ₂ O ₃ /TiO ₂ /O ₂ /Al ₂ O ₃ Ceramics from Al ₂ O ₃ /TiO ₂ /Y ₂ O ₃ Powder Mixtures. <i>Journal of Advanced Microscopy Research</i> , 2013, 8, 186-194.	0.3	1
60	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
61	In _{1.08} Gd _{0.92} Ge ₂ O ₇ : A New Member of the Thortveitite Family.. <i>ChemInform</i> , 2003, 34, no-no.	0.1	0
62	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
63	In _{1.06} Ho _{0.94} Ge ₂ O ₇ : A Thortveitite-Type Compound.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
64	Micrometric Single Crystal Germanates Obtained Using a Double-Spherical Mirror Furnace.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
65	Incorporation of vanadium(V) into the rutile-type phase of GeO ₂ : the solid solution Ge _{0.74} V _{0.21} – _i 0.05O ₂ . <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, i99-i101.	0.2	0
66	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
67	Synthesis and Structure-Property Relations of Binary Transition Metal Carbides at Extreme Conditions. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2010, , 397-406.	0.2	0
68	Unnamed Pt(Cu _{0.67} Sn _{0.33}) 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