

Nenad Velisavljevic

List of Publications by Year in descending order

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70
papers

956
citations

566801

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h-index

525886

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72
all docs

72
docs citations

72
times ranked

1055
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-phase equation of state of ultrapure hafnium to 120 GPa. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 055401.	0.7	2
2	Strength of tantalum to 276 GPa determined by two x-ray diffraction techniques using diamond anvil cells. <i>Journal of Applied Physics</i> , 2022, 131, 015905.	1.1	2
3	Nontrivial nanostructure, stress relaxation mechanisms, and crystallography for pressure-induced Si- δ -Si-II phase transformation. <i>Nature Communications</i> , 2022, 13, 982.	5.8	6
4	High-Entropy Borides under Extreme Environment of Pressures and Temperatures. <i>Materials</i> , 2022, 15, 3239.	1.3	7
5	Phase Transitions of Cu and Fe at Multiscales in an Additively Manufactured Cu-Fe Alloy under High-Pressure. <i>Nanomaterials</i> , 2022, 12, 1514.	1.9	4
6	Phase transitions in high-purity zirconium under dynamic compression. <i>Physical Review B</i> , 2022, 105, .	1.1	2
7	Pressure-Induced Enhancement of Thermoelectric Figure of Merit and Structural Phase Transition in TiNiSn. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1046-1051.	2.1	12
8	High-pressure high-temperature synthesis and thermal equation of state of high-entropy transition metal boride. <i>AIP Advances</i> , 2021, 11, .	0.6	11
9	X-ray Free Electron Laser-Induced Synthesis of μ -Iron Nitride at High Pressures. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3246-3252.	2.1	14
10	Novel experimental setup for megahertz X-ray diffraction in a diamond anvil cell at the High Energy Density (HED) instrument of the European X-ray Free-Electron Laser (EuXFEL). <i>Journal of Synchrotron Radiation</i> , 2021, 28, 688-706.	1.0	21
11	Structural Changes in Liquid Lithium under High Pressure. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7258-7262.	1.2	2
12	High-pressure X-ray diffraction and vibrational spectroscopy of polyethylene: Evidence for a structural phase transition. <i>Vibrational Spectroscopy</i> , 2020, 111, 103173.	1.2	5
13	A broadband wavelet implementation for rapid ultrasound pulse-echo time-of-flight measurements. <i>Review of Scientific Instruments</i> , 2020, 91, 075115.	0.6	9
14	Experimental melting curve of zirconium metal to 37 GPa. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 355402.	0.7	10
15	Room-temperature compression and equation of state of body-centered cubic zirconium. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 12LT02.	0.7	9
16	Dynamic experiments to study the δ - μ phase transition in cerium. <i>Journal of Applied Physics</i> , 2020, 127, 095901.	1.1	10
17	Ultrahigh pressure equation of state of tantalum to 310 GPa. <i>High Pressure Research</i> , 2019, 39, 489-498.	0.4	10
18	Structure and properties of pseudomorphically transformed bcc Mg in Mg/Nb multilayered nanolaminates studied using synchrotron X-ray diffraction. <i>Journal of Applied Physics</i> , 2019, 126, 025302.	1.1	10

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19	Anomalous Conductivity in the Rutile Structure Driven by Local Disorder. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5351-5356.	2.1	4
20	HPCAT: A Static Compression Science Sector at the Advance Photon Source. <i>Nihon Kessho Gakkaishi</i> , 2019, 61, 163-167.	0.0	0
21	Mechanisms of Pressure-Induced Phase Transitions by Real-Time Laue Diffraction. <i>Crystals</i> , 2019, 9, 672.	1.0	7
22	Real time study of grain enlargement in zirconium under room-temperature compression across the β to γ phase transition. <i>Scientific Reports</i> , 2019, 9, 15712.	1.6	4
23	Exploring Materials Synthesis, Properties, and Metastability Thorough Rapid (De)Compression. , 2019, , .		0
24	Compressibility and thermoelectric behavior of TiCoSb half-Heusler compound at high pressures. <i>Intermetallics</i> , 2018, 95, 137-143.	1.8	12
25	A Broadband Technique for Couplant-Corrected Pulse-Echo Measurements in a Large Volume Pressure Cell. , 2018, , .		1
26	Volume collapse phase transitions in cerium-praseodymium alloys under high pressure. <i>High Pressure Research</i> , 2018, 38, 270-280.	0.4	1
27	Strong, Ductile, and Thermally Stable bcc-Mg Nanolaminates. <i>Scientific Reports</i> , 2017, 7, 8264.	1.6	53
28	Giant Pressure-Induced Enhancement of Seebeck Coefficient and Thermoelectric Efficiency in SnTe. <i>ChemPhysChem</i> , 2017, 18, 3315-3319.	1.0	8
29	Shear-driven instability in zirconium at high pressure and temperature and its relationship to phase-boundary behaviors. <i>Physical Review B</i> , 2017, 95, .	1.1	7
30	High-pressure structural parameters and equation of state of osmium to 207 GPa. <i>Cogent Physics</i> , 2017, 4, 1376899.	0.7	13
31	Nanocrystalline diamond micro-anvil grown on single crystal diamond as a generator of ultra-high pressures. <i>AIP Advances</i> , 2016, 6, 095027.	0.6	5
32	High pressure elasticity and thermal properties of depleted uranium. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	5
33	High-pressure high-temperature phase diagram of gadolinium studied using a boron-doped heater anvil. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	3
34	High pressure structural study of samarium doped CeO ₂ oxygen vacancy conductor – Insight into the dopant concentration relationship to the strain effect in thin film ionic conductors. <i>Solid State Ionics</i> , 2016, 292, 59-65.	1.3	4
35	High pressure and temperature equation of state and spectroscopic study of CeO ₂ . <i>Journal of Physics Condensed Matter</i> , 2016, 28, 155401.	0.7	7
36	Equation of state and thermodynamic Grüneisen parameter of monoclinic 1,1-diamino-2,2-dinitroethylene. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 395402.	0.7	3

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37	High-pressure Seebeck coefficients and thermoelectric behaviors of Bi and PbTe measured using a Paris-Edinburgh cell. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1368-1378.	1.0	7
38	Containment system for experiments on radioactive and other hazardous materials in a Paris-Edinburgh press. <i>Review of Scientific Instruments</i> , 2015, 86, 113904.	0.6	2
39	Pressure induced structural transitions in CuSbS ₂ and CuSbSe ₂ thermoelectric compounds. <i>Journal of Alloys and Compounds</i> , 2015, 643, 186-194.	2.8	54
40	Pressure-induced kinetics of the $\sqrt{3} \times \sqrt{3} \times \sqrt{3}$ to $\sqrt{2} \times \sqrt{2} \times \sqrt{2}$ transition in zirconium. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	16
41	High pressure studies using two-stage diamond micro-anvils grown by chemical vapor deposition. <i>High Pressure Research</i> , 2015, 35, 282-288.	0.4	12
42	High Pressure α -Temperature Phase Diagram of 1,1-Diamino-2,2-dinitroethylene (FOX-7). <i>Journal of Physical Chemistry A</i> , 2015, 119, 9739-9747.	1.1	32
43	Time-resolved x-ray diffraction and electrical resistance measurements of structural phase transitions in zirconium. <i>Journal of Physics: Conference Series</i> , 2014, 500, 032020.	0.3	12
44	Structural phase stability in nanocrystalline titanium to 161 GPa. <i>Materials Research Express</i> , 2014, 1, 035044.	0.8	11
45	In situ x-ray diffraction, electrical resistivity and thermal measurements using a Paris-Edinburgh cell at HPCAT 16BM-B beamline. <i>Journal of Physics: Conference Series</i> , 2014, 500, 142003.	0.3	1
46	Intermolecular Stabilization of 3,3'-Diamino-4,4'-azoxyfurazan (DAAF) Compressed to 20 GPa. <i>Journal of Physical Chemistry A</i> , 2014, 118, 5969-5982.	1.1	25
47	High pressure-temperature polymorphism of 1,1-diamino-2,2-dinitroethylene. <i>Journal of Physics: Conference Series</i> , 2014, 500, 052005.	0.3	9
48	Thermal equation of state and thermodynamic Grüneisen parameter of beryllium metal. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	10
49	1,1-diamino-2,2-dinitroethylene under high pressure-temperature. <i>Journal of Chemical Physics</i> , 2012, 137, 174304.	1.2	35
50	A high-pressure far- and mid-infrared study of 1,1-diamino-2,2-dinitroethylene. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	37
51	The phase diagram of ammonium nitrate. <i>Journal of Chemical Physics</i> , 2012, 137, 064504.	1.2	36
52	Effects of interstitial impurities on the high pressure martensitic $\sqrt{3} \times \sqrt{3}$ to $\sqrt{2} \times \sqrt{2}$ structural transformation and grain growth in zirconium. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 125402.	0.7	20
53	EQUATION OF STATE OF AMMONIUM NITRATE. , 2009, , .		4
54	STRUCTURAL PHASE STABILITY IN GROUP IV METALS UNDER STATIC HIGH PRESSURE. , 2009, , .		1

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55	Hydrostatic Compression Curve for Triamino- ϵ -trinitrobenzene Determined to 13.0 GPa with Powder X-ray Diffraction. Propellants, Explosives, Pyrotechnics, 2008, 33, 286-295.	1.0	103
56	High-Pressure Raman Spectroscopy and X-ray Diffraction Studies of a Terpolymer of Tetrafluoroethylene-Hexafluoropropylene-Vinylidene Fluoride: THV 500. Applied Spectroscopy, 2008, 62, 142-148.	1.2	16
57	The high-pressure phase behavior and compressibility of 2,4,6-trinitrotoluene. Applied Physics Letters, 2008, 93, .	1.5	16
58	EQUATION OF STATE FOR TI-BETA-21S. , 2008, , .		1
59	STATIC HIGH PRESSURE X-RAY DIFFRACTION OF TI-6AL-4V. AIP Conference Proceedings, 2008, , .	0.3	2
60	Direct hcp \rightarrow bcc structural phase transition observed in titanium alloy at high pressure. Applied Physics Letters, 2007, 91, .	1.5	16
61	Physical and mechanical properties of C60 under high pressures and high temperatures. High Pressure Research, 2006, 26, 175-183.	0.4	13
62	Calibration of an isotopically enriched carbon-13 layer pressure sensor to 156 GPa in a diamond anvil cell. Journal of Applied Physics, 2006, 99, 064906.	1.1	9
63	Crystal grain growth at the α -uranium phase transformation in praseodymium. Physical Review B, 2005, 71, .	1.1	30
64	Simultaneous electrical and X-ray diffraction studies on neodymium metal to 152 GPa. High Pressure Research, 2005, 25, 137-144.	0.4	9
65	Electrical measurements on praseodymium metal to 179 GPa using designer diamond anvils. Applied Physics Letters, 2004, 84, 927-929.	1.5	29
66	Distortion of alpha-uranium structure in praseodymium metal to 311 GPa. High Pressure Research, 2004, 24, 295-302.	0.4	44
67	Isotopically pure C13 layer as a stress sensor in a diamond anvil cell. Applied Physics Letters, 2004, 84, 5308-5310.	1.5	10
68	Bioceramic hydroxyapatite at high pressures. Applied Physics Letters, 2003, 82, 4271-4273.	1.5	17
69	Structural and electrical properties of beryllium metal to 66 GPa studied using designer diamond anvils. Physical Review B, 2002, 65, .	1.1	27
70	Titanium Alloys at Extreme Pressure Conditions. , 0, , .		4