

# Yogesh K Vohra

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

254  
papers

7,781  
citations

46  
h-index

80  
g-index

266  
ext. papers

8,384  
ext. citations

3.3  
avg, IF

5.7  
L-index

#	Paper	IF	Citations
254	Strength of tantalum to 276 GPa determined by two x-ray diffraction techniques using diamond anvil cells. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 015905	2.5	0
253	Magnetic Structure of antiferromagnetic high-pressure phases of dysprosium. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 545, 168749	2.8	
252	Experimental and theoretical P-V-T equation of state for Os <sub>2</sub> B <sub>3</sub> . <i>High Pressure Research</i> , <b>2021</b> , 41, 27-38	1.6	
251	Shear strength measurements and hydrostatic compression of rhenium diboride under high pressures. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 205901	2.5	0
250	Pressure-induced structural transition and huge enhancement of superconducting properties of single-crystal Fe <sub>0.99</sub> Ni <sub>0.01</sub> Se <sub>0.5</sub> Te <sub>0.5</sub> unconventional superconductor. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 1624-1636	2.5	1
249	High-pressure high-temperature synthesis and thermal equation of state of high-entropy transition metal boride. <i>AIP Advances</i> , <b>2021</b> , 11, 035107	1.5	3
248	Machine learning and evolutionary prediction of superhard B-C-N compounds. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	4
247	Room-temperature compression and equation of state of body-centered cubic zirconium. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 12LT02	1.8	4
246	First-Principles Predictions and Synthesis of BC by Chemical Vapor Deposition. <i>Scientific Reports</i> , <b>2020</b> , 10, 4454	4.9	3
245	Non-equilibrium organosilane plasma polymerization for modulating the surface of PTFE towards potential blood contact applications. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 2814-2825	7.3	6
244	Electronic structure and anisotropic compression of OsB to 358 GPa. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 405703	1.8	3
243	Static compression of rare earth metal holmium to 282 GPa. <i>High Pressure Research</i> , <b>2020</b> , 40, 392-401	1.6	3
242	Dusty-Plasma-Assisted Synthesis of Silica Nanoparticles for in Situ Surface Modification of 3D-Printed Polymer Scaffolds. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 7392-7396	5.6	4
241	Neutron diffraction study of magnetic ordering in high pressure phases of rare earth metal holmium. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 507, 166843	2.8	2
240	Experimental and Computational Studies on Superhard Material Rhenium Diboride under Ultrahigh Pressures. <i>Materials</i> , <b>2020</b> , 13,	3.5	10
239	Observation of two collapsed phases in CaRbFe <sub>4</sub> As <sub>4</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	2
238	Novel magneto-plasma processing for enhanced modification of electrospun biomaterials. <i>Materials Letters</i> , <b>2019</b> , 250, 96-98	3.3	3

237	Ultra-high pressure equation of state of tantalum to 310 GPa. <i>High Pressure Research</i> , <b>2019</b> , 39, 489-498	1.6	7
236	Non-equilibrium hybrid organic plasma processing for superhydrophobic PTFE surface towards potential bio-interface applications. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 183, 110463	6	4
235	Magnetic ordering in rare earth metal dysprosium revealed by neutron diffraction studies in a large-volume diamond anvil cell. <i>High Pressure Research</i> , <b>2019</b> , 39, 588-597	1.6	4
234	Lattice disorder effect on magnetic ordering of iron arsenides. <i>Scientific Reports</i> , <b>2019</b> , 9, 20147	4.9	
233	Rapid Growth of Nanocrystalline Diamond on Single Crystal Diamond for Studies on Materials under Extreme Conditions. <i>Scientific Reports</i> , <b>2018</b> , 8, 1402	4.9	11
232	Atmospheric pressure plasma jet: A facile method to modify the intimal surface of polymeric tubular conduits. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2018</b> , 36, 04F404	2.0	10
231	Superconducting and magnetic phase diagram of RbEuFe <sub>4</sub> As <sub>4</sub> and CsEuFe <sub>4</sub> As <sub>4</sub> at high pressure. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	19
230	Computational Predictions and Microwave Plasma Synthesis of Superhard Boron-Carbon Materials. <i>Materials</i> , <b>2018</b> , 11,	3.5	6
229	High pressure high temperature devitrification of Fe <sub>78</sub> B <sub>13</sub> Si <sub>9</sub> metallic glass with simultaneous x-ray structural characterization. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 215901	2.5	
228	Volume collapse phase transitions in cerium-praseodymium alloys under high pressure. <i>High Pressure Research</i> , <b>2018</b> , 38, 270-280	1.6	1
227	Magnetic transition temperatures follow crystallographic symmetry in samarium under high-pressures and low-temperatures. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 065801	1.8	4
226	White-beam X-ray diffraction and radiography studies on high-boron-containing borosilicate glass at high pressures. <i>High Pressure Research</i> , <b>2017</b> , 37, 233-243	1.6	0
225	High-pressure structural parameters and equation of state of osmium to 207 GPa. <i>Cogent Physics</i> , <b>2017</b> , 4, 1376899	3.5	9
224	Near-zero thermal expansion in magnetically ordered state in dysprosium at high pressures and low temperatures. <i>Cogent Physics</i> , <b>2017</b> , 4, 1412107	3.5	3
223	Morphological Transition in Diamond Thin-Films Induced by Boron in a Microwave Plasma Deposition Process. <i>Materials</i> , <b>2017</b> , 10,	3.5	5
222	Magnetic and Structural Phase Transitions in Thulium under High Pressures and Low Temperatures. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 950, 042026	0.3	0
221	Superconducting Bi <sub>2</sub> Te: Pressure-induced universality in the (Bi <sub>2</sub> ) <sub>m</sub> (Bi <sub>2</sub> Te <sub>3</sub> ) <sub>n</sub> series. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	7
220	Emergent ferromagnetism and T-linear scattering in USb <sub>2</sub> at high pressure. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	13

219	Climate change confers a potential advantage to fleshy Antarctic crustose macroalgae over calcified species.. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2016</b> , 474, 58-66	2.1	20
218	Metallicity of Ca <sub>2</sub> Cu <sub>6</sub> P <sub>5</sub> with single and double copper-pnictide layers. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 671, 334-339	5.7	4
217	High-pressure high-temperature phase diagram of organic crystal paracetamol. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 035101	1.8	4
216	Nanocrystalline diamond micro-anvil grown on single crystal diamond as a generator of ultra-high pressures. <i>AIP Advances</i> , <b>2016</b> , 6, 095027	1.5	4
215	High pressure structural study of samarium doped CeO <sub>2</sub> oxygen vacancy conductor Insight into the dopant concentration relationship to the strain effect in thin film ionic conductors. <i>Solid State Ionics</i> , <b>2016</b> , 292, 59-65	3.3	4
214	Fabrication of Diamond Based Sensors for Use in Extreme Environments. <i>Materials</i> , <b>2015</b> , 8, 2054-2061	3.5	5
213	In vitro degradation and cell attachment studies of a new electrospun polymeric tubular graft. <i>Progress in Biomaterials</i> , <b>2015</b> , 4, 67-76	4.4	8
212	Fibro-porous poliglecaprone/polycaprolactone conduits: synergistic effect of composition and degradation on mechanical properties. <i>Polymer International</i> , <b>2015</b> , 64, 547-555	3.3	14
211	High pressure studies using two-stage diamond micro-anvils grown by chemical vapor deposition. <i>High Pressure Research</i> , <b>2015</b> , 35, 282-288	1.6	11
210	High Pressure-Temperature Phase Diagram of 1,1-Diamino-2,2-dinitroethylene (FOX-7). <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 9739-47	2.8	24
209	Nitrogen and Silicon Defect Incorporation during Homoepitaxial CVD Diamond Growth on (111) Surfaces. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1734, 26		1
208	Biohybrid Fibro-Porous Vascular Scaffolds: Effect of Crosslinking on Properties. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1718, 7		5
207	Strongly coupled electronic, magnetic, and lattice degrees of freedom in LaCo <sub>5</sub> under pressure. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	3
206	Magnetic ordering temperatures in rare earth metal dysprosium under ultrahigh pressures. <i>High Pressure Research</i> , <b>2014</b> , 34, 266-272	1.6	10
205	Pressure-induced superconductivity and structural transitions in Ba(Fe <sub>0.9</sub> Ru <sub>0.1</sub> ) <sub>2</sub> As <sub>2</sub> . <i>European Physical Journal B</i> , <b>2014</b> , 87, 1	1.2	1
204	Polymorphism in paracetamol: evidence of additional forms IV and V at high pressure. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 6068-77	2.8	26
203	Structural and magnetic phase transitions in gadolinium under high pressures and low temperatures. <i>High Pressure Research</i> , <b>2014</b> , 34, 385-391	1.6	12
202	Rapid Growth of Nanostructured Diamond Film on Silicon and Ti-6Al-4V Alloy Substrates. <i>Materials</i> , <b>2014</b> , 7, 365-374	3.5	6

201	High pressure effects on the superconductivity in rare-earth-doped CaFe <sub>2</sub> As <sub>2</sub> . <i>High Pressure Research</i> , <b>2014</b> , 34, 49-58	1.6	4
200	Neutron diffraction and electrical transport studies on magnetic ordering in terbium at high pressures and low temperatures. <i>High Pressure Research</i> , <b>2013</b> , 33, 555-562	1.6	8
199	Synthesis and Characterization of Boron-Doped Single Crystal Diamond. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1519, 1		3
198	Nano-TiO <sub>2</sub> particles impair adhesion of airway epithelial cells to fibronectin. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 185, 454-60	2.8	6
197	High Pressure Low Temperature Studies on 1-2-2 Iron-based Superconductors Using Designer Diamond Cells. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1582, 1		
196	Structural Properties of Lanthanides at Ultra High Pressure. <i>Fundamental Theories of Physics</i> , <b>2013</b> , 275-319		12
195	Recent advances in the development of GTR/GBR membranes for periodontal regeneration--a materials perspective. <i>Dental Materials</i> , <b>2012</b> , 28, 703-21	5.7	406
194	Simultaneous measurement of pressure evolution of crystal structure and superconductivity in FeSe 0.92 using designer diamonds. <i>Europhysics Letters</i> , <b>2012</b> , 99, 26002	1.6	10
193	Pressure-induced superconductivity in Ba <sub>0.5</sub> Sr <sub>0.5</sub> Fe <sub>2</sub> As <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 495702	1.8	1
192	In vitro studies on the effect of particle size on macrophage responses to nanodiamond wear debris. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 1939-47	10.8	76
191	Magnetic transitions in erbium at high pressures. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07E104	2.5	1
190	Magnetic properties of single crystal EuCo <sub>2</sub> As <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07E106	2.5	22
189	1,1-Diamino-2,2-dinitroethylene under high pressure-temperature. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 174304	3.9	29
188	Structural phase transitions in yttrium under ultrahigh pressures. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 362201	1.8	25
187	Neutron diffraction and electrical transport studies on the incommensurate magnetic phase transition in holmium at high pressures. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 216003	1.8	1
186	Spatially Designed Nanofibrous Membranes for Periodontal Tissue Regeneration <b>2012</b> , 141-168		
185	Conducting boron-doped single-crystal diamond films for high pressure research. <i>High Pressure Research</i> , <b>2011</b> , 31, 388-398	1.6	2
184	Improved adhesion of ultra-hard carbon films on cobalt-chromium orthopaedic implant alloy. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2011</b> , 22, 307-16	4.5	26

183	Engineering an antiplatelet adhesion layer on an electrospun scaffold using porcine endothelial progenitor cells. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2011</b> , 97, 145-51	5.4	23
182	Biodegradable polyurethanes: Comparative study of electrospun scaffolds and films. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 121, 3292-3299	2.9	13
181	Compression of bulk metallic glass Zr <sub>57</sub> Cu <sub>15.4</sub> Ni <sub>12.6</sub> Al <sub>10</sub> Nb <sub>5</sub> to 122 GPa. <i>High Pressure Research</i> , <b>2011</b> , 31, 287-291	1.6	0
180	Phase transition and superconductivity of SrFe(2)As(2) under high pressure. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 122201	1.8	37
179	Electrospinning of Biosyn(□)-based tubular conduits: structural, morphological, and mechanical characterizations. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 2070-9	10.8	26
178	High pressure phase transitions in the rare earth metal erbium to 151 GPa. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 315701	1.8	14
177	High-pressure phase transitions in rare earth metal thulium to 195 GPa. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 155701	1.8	12
176	Magnetic and structural phase transitions in erbium at low temperatures and high pressures. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	5
175	Structural phase transitions in EuFe <sub>2</sub> As <sub>2</sub> superconductor at low temperatures and high pressures. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 365703	1.8	10
174	Synthesis and Characterization of Multilayered Diamond Coatings for Biomedical Implants. <i>Materials</i> , <b>2011</b> , 4, 857-867	3.5	42
173	Mesenchymal stem cell responses to bone-mimetic electrospun matrices composed of polycaprolactone, collagen I and nanoparticulate hydroxyapatite. <i>PLoS ONE</i> , <b>2011</b> , 6, e16813	3.7	82
172	Low temperature amorphization and superconductivity in FeSe single crystals at high pressures. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 396-400	2.5	8
171	Anomalous compressibility effects and superconductivity of EuFe <sub>2</sub> As <sub>2</sub> under high pressures. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 292202	1.8	59
170	Structural and magnetic phase transitions in NdCoAsO under high pressures. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 185702	1.8	6
169	Formation of collapsed tetragonal phase in EuCoAs <sub>2</sub> under high pressure. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 425701	1.8	26
168	Collapsed tetragonal phase and superconductivity of BaFe <sub>2</sub> As <sub>2</sub> under high pressure. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	64
167	In vitro dissolution and mechanical behavior of c-axis preferentially oriented hydroxyapatite thin films fabricated by pulsed laser deposition. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 3234-41	10.8	63
166	Two ply tubular scaffolds comprised of proteins/poliglecaprone/polycaprolactone fibers. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2010</b> , 21, 541-9	4.5	33

165	An in vitro regenerated functional human endothelium on a nanofibrous electrospun scaffold. <i>Biomaterials</i> , <b>2010</b> , 31, 4376-81	15.6	78
164	In situ electrical conductivity and Raman study of C60 tetragonal polymer at high pressures up to 30 GPa. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 3068-3071	1.3	4
163	Multivariable study on homoepitaxial diamond growth using isotopically enriched carbon-13 gas mixtures. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 493-498	2.5	1
162	In vitro biodegradation of designed tubular scaffolds of electrospun protein/polyglyconate blend fibers. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2009</b> , 89, 135-47	3.5	40
161	A biomimetic tubular scaffold with spatially designed nanofibers of protein/PDS bio-blends. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 104, 1025-33	4.9	72
160	Electrospinning of novel biodegradable poly(ester urethane)s and poly(ester urethane urea)s for soft tissue-engineering applications. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2009</b> , 20, 2129-34	3.5	43
159	High pressure superconductivity in iron-based layered compounds studied using designer diamonds. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 232201	1.8	32
158	Rapid dissolution of shells of weakly calcified Antarctic benthic macroorganisms indicates high vulnerability to ocean acidification. <i>Antarctic Science</i> , <b>2009</b> , 21, 449-456	1.7	99
157	Pressure-induced reversible amorphization in superconducting compound FeSe <sub>0.5</sub> Te <sub>0.5</sub> . <i>High Pressure Research</i> , <b>2009</b> , 29, 267-271	1.6	10
156	Synthesis and Mechanical Wear Studies of Ultra Smooth Nanostructured Diamond (USND) Coatings Deposited by Microwave Plasma Chemical Vapor Deposition with He/H <sub>2</sub> /CH <sub>4</sub> /N <sub>2</sub> Mixtures. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 419-427	3.5	26
155	Growth chemistry for the fabrication of designer diamonds for high pressure research. <i>High Pressure Research</i> , <b>2008</b> , 28, 1-8	1.6	3
154	High speed continuous and interrupted dry turning of A390 Aluminum/Silicon Alloy using nanostructured diamond coated WC <sub>8</sub> wt.% cobalt tool inserts by MPCVD. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 2041-2047	3.5	21
153	Modeling of nitrogen/diborane/methane/hydrogen plasma for nanocrystalline diamond growth: Comparison with experimental data. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 2067-2070	3.5	10
152	Adhesion of nanostructured diamond film on a copper/beryllium alloy. <i>Journal of Materials Research</i> , <b>2008</b> , 23, 2373-2381	2.5	5
151	High Pressure Phase Transformations in Heavy Rare Earth Metals and Connections to Actinide Crystal Structures. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1104, 1		10
150	Mesenchymal stem cell interaction with ultra-smooth nanostructured diamond for wear-resistant orthopaedic implants. <i>Biomaterials</i> , <b>2008</b> , 29, 3461-8	15.6	70
149	Preliminary tribological evaluation of nanostructured diamond coatings against ultra-high molecular weight polyethylene. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2008</b> , 85, 140-8	3.5	24
148	Functionally graded electrospun scaffolds with tunable mechanical properties for vascular tissue regeneration. <i>Biomedical Materials (Bristol)</i> , <b>2007</b> , 2, 224-32	3.5	88

147	Electrical conductivity of the lower-mantle ferropericlase across the electronic spin transition. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	42
146	Accelerating aging of zirconia femoral head implants: change of surface structure and mechanical properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2007</b> , 81, 486-92	3.5	25
145	Crystallographic texture in pulsed laser deposited hydroxyapatite bioceramic coatings. <i>Acta Materialia</i> , <b>2007</b> , 55, 131-139	8.4	40
144	Nanostructured biocomposite scaffolds based on collagen coelectrospun with nanohydroxyapatite. <i>Biomacromolecules</i> , <b>2007</b> , 8, 631-7	6.9	218
143	Symmetry lowering under high pressure: Structural evidence for f-shell delocalization in heavy rare earth metal terbium. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	28
142	Role of nitrogen in the homoepitaxial growth on diamond anvils by microwave plasma chemical vapor deposition. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 1112-1117	2.5	2
141	Finite-element modeling of stresses and strains in a diamond anvil cell device: case of a diamond-coated rhenium gasket. <i>High Pressure Research</i> , <b>2007</b> , 27, 321-331	1.6	3
140	Electrospun bioactive nanocomposite scaffolds of polycaprolactone and nanohydroxyapatite for bone tissue engineering. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 487-93	1.3	106
139	Ultra-smooth nanostructured diamond films deposited from He/H <sub>2</sub> /CH <sub>4</sub> /N <sub>2</sub> microwave plasmas. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 258-61	1.3	13
138	Synthesis of ultrasmooth nanostructured diamond films by microwave plasma chemical vapor deposition using a He/H(2)/CH(4)/N(2) gas mixture. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 2675-2682	2.5	15
137	Calibration of an isotopically enriched carbon-13 layer pressure sensor to 156GPa in a diamond anvil cell. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 064906	2.5	9
136	Physical and mechanical properties of C60 under high pressures and high temperatures. <i>High Pressure Research</i> , <b>2006</b> , 26, 175-183	1.6	12
135	Mechano-morphological studies of aligned nanofibrous scaffolds of polycaprolactone fabricated by electrospinning. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2006</b> , 17, 969-84	3.5	142
134	Observation of complete regular trivalent rare earth sequence in heavy lanthanide metal holmium under high pressure. <i>High Pressure Research</i> , <b>2006</b> , 26, 43-50	1.6	11
133	Effect of Surface Oxides and Intermetallics on Nanostructured Diamond Coating of Nitinol. <i>Current Nanoscience</i> , <b>2006</b> , 2, 9-12	1.4	5
132	Ultra-Smooth Nanostructured Diamond Films Deposited from He/H <sub>2</sub> /CH <sub>4</sub> /N <sub>2</sub> Microwave Plasmas. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 258-261	1.3	14
131	Nanostructured Biomaterials for Regenerative Medicine. <i>Current Nanoscience</i> , <b>2006</b> , 2, 155-177	1.4	123
130	Analysis of anisotropic compression of uranium under high pressures: a computational and experimental overview. <i>High Pressure Research</i> , <b>2005</b> , 25, 235-242	1.6	5



129	Nanoindentation on porous bioceramic scaffolds for bone tissue engineering. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2005</b> , 5, 1816-20	1.3	16
128	Low temperature growth of nanostructured diamond on quartz spheres. <i>Journal Physics D: Applied Physics</i> , <b>2005</b> , 38, 1410-1414	3	12
127	Crystal grain growth at the Uranium phase transformation in praseodymium. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	28
126	Simultaneous electrical and X-ray diffraction studies on neodymium metal to 152 GPa. <i>High Pressure Research</i> , <b>2005</b> , 25, 137-144	1.6	9
125	Mesenchymal stem cell adhesion and spreading on nanostructured biomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2004</b> , 4, 986-9	1.3	28
124	Electrical measurements on praseodymium metal to 179 GPa using designer diamond anvils. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 927-929	3.4	26
123	Crystal structure and compressibility of FePt nanoparticles under high pressures and high temperatures. <i>High Pressure Research</i> , <b>2004</b> , 24, 357-364	1.6	1
122	Mechanical wear behavior of nanocrystalline and multilayer diamond coatings on temporomandibular joint implants. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2004</b> , 15, 773-7	4.5	71
121	Distortion of alpha-uranium structure in praseodymium metal to 311 GPA. <i>High Pressure Research</i> , <b>2004</b> , 24, 295-302	1.6	39
120	Isotopically pure C13 layer as a stress sensor in a diamond anvil cell. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 5308-5310	3.4	10
119	Properties of nanocrystalline diamond thin films grown by MPCVD for biomedical implant purposes. <i>Diamond and Related Materials</i> , <b>2004</b> , 13, 1740-1743	3.5	38
118	Structure and Mechanical Properties of Functionally-Graded Nanostructured Metallo-ceramic Coatings. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 778, 781		
117	Surface crystalline phases and nanoindentation hardness of explanted zirconia femoral heads. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2003</b> , 14, 863-7	4.5	68
116	Structural and mechanical properties of nanostructured metallo-ceramic coatings on cobalt chrome alloys. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1625-1627	3.4	17
115	Isotopically enriched designer-diamond anvil. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 1734-1736	3.4	7
114	Crystallographic Anisotropy in Compression of Uranium Metal to 100 GPa. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 802, 27		1
113	Bioceramic hydroxyapatite at high pressures. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 4271-4273	3.4	14
112	Effect of Surface Treatments on the Structural and Mechanical Properties of Nanostructured Diamond Coatings on Tungsten Carbide Cutting Tools. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 791, 322		1

111	Mechanical Properties of Boron Doped Diamond Films Prepared by MPCVD. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 791, 293		2
110	Effect of nitrogen addition on the morphology and structure of boron-doped nanostructured diamond films. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 5047-5049	3-4	13
109	X-ray diffraction and nanoindentation studies of nanocrystalline graphite at high pressures. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 2073-2075	3-4	28
108	Nanostructured diamond film deposition on curved surfaces of metallic temporomandibular joint implant. <i>Journal Physics D: Applied Physics</i> , <b>2002</b> , 35, L105-L107	3	22
107	Nanostructured ceramics for biomedical implants. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2002</b> , 2, 293-312	1-3	115
106	Mechanical properties of pulsed laser-deposited hydroxyapatite thin films for applications in biomedical implants. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 750, 1		1
105	Thermal Stability of Nanocrystalline Diamond Films Grown by Microwave Plasma Chemical Vapor Deposition. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 750, 1		
104	Nanoindentation hardness and adhesion investigations of vapor deposited nanostructured diamond films. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 5347-5352	2-5	46
103	Very high growth rate chemical vapor deposition of single-crystal diamond. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 12523-5	11-5	196
102	Gas-phase thermodynamic models of nitrogen-induced nanocrystallinity in chemical vapor-deposited diamond. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 2550-2552	3-4	26
101	Novel gamma-phase of titanium metal at megabar pressures. <i>Physical Review Letters</i> , <b>2001</b> , 86, 3068-71	7-4	167
100	Single-wall carbon nanotubes under high pressures to 62 GPa studied using designer diamond anvils. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2001</b> , 1, 143-7	1-3	14
99	Nanoindentation of Pressure Quenched Fullerenes and Zirconium Metal from a Diamond Anvil Cell. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 649, 7241		
98	Nitrogen incorporation in diamond films homoepitaxially grown by chemical vapour deposition. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, L519-L524	1-8	7
97	Nanoindentation and x-ray diffraction studies of pressure-induced amorphization in C-70 fullerene. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 851-853	3-4	17
96	Phase transformations and equation of state of praseodymium metal to 103 GPa. <i>Physical Review B</i> , <b>2000</b> , 62, 2965-2968	3-3	38
95	Nanoindentation hardness and atomic force microscope imaging studies of pressure-quenched zirconium metal. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 3568-3570	3-4	6
94	Epitaxial diamond encapsulation of metal microprobes for high pressure experiments. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 3400-3402	3-4	119

93	Uranium phase in compressed neodymium metal. <i>Physical Review B</i> , <b>2000</b> , 61, R3768-R3771	3.3	33
92	Interfacial adhesion and toughness of nanostructured diamond coatings. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 1052-1055	2.5	19
91	Electrical and mechanical properties of C70 fullerene and graphite under high pressures studied using designer diamond anvils. <i>Physical Review Letters</i> , <b>2000</b> , 85, 5364-7	7.4	78
90	Interfacial oxide and carbide phases in the deposition of diamond films on beryllium metal. <i>Diamond and Related Materials</i> , <b>2000</b> , 9, 1327-1330	3.5	5
89	Multilayer nanocrystalline/microcrystalline diamond films studied by laser reflectance interferometry. <i>Diamond and Related Materials</i> , <b>2000</b> , 9, 1512-1517	3.5	29
88	Ultrapressure equation of state of cerium metal to 208 GPa. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 2451-2453	3.4	34
87	Effect of nitrogen addition on the microstructure and mechanical properties of diamond films grown using high-methane concentrations. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 698-700	2.5	65
86	Structural and Electronic Transitions in Ytterbium Metal to 202 GPa. <i>Physical Review Letters</i> , <b>1999</b> , 82, 1712-1715	7.4	41
85	High pressure phase transformations in neodymium studied in a diamond anvil cell using diamond-coated rhenium gaskets. <i>Journal of Physics Condensed Matter</i> , <b>1999</b> , 11, 6515-6520	1.8	16
84	Multiple twinning and nitrogen defect center in chemical vapor deposited homoepitaxial diamond. <i>Diamond and Related Materials</i> , <b>1999</b> , 8, 2022-2031	3.5	50
83	Microcrystalline and Nanocrystalline Diamond Film Deposition on Cobalt Chrome Alloy. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 594, 307		
82	Phase transformation in lutetium metal at 88 GPa. <i>Physical Review B</i> , <b>1998</b> , 57, 10221-10223	3.3	13
81	In situ diagnostics of film thickness and surface roughness of diamond films on a Ti6Al4V alloy by optical pyrometry. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 181-183	3.4	21
80	Mechanical properties and quality of diamond films synthesized on Ti6Al4V alloy using the microwave plasmas of CH4/H2 and CO/H2 systems. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 198-204	2.5	13
79	High density plasma processing of nanostructured diamond films on metals. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 6469-6471	2.5	42
78	Nitrogen Defect Concentration in Chemical Vapor Deposited Homoepitaxial Diamond at High TemperatureS. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 555, 239		
77	Nitrogen-Induced Nanocrystallinity of CVD Diamond Films on Ti-6Al-4V Alloys. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 555, 377		3
76	High Pressure-High Temperature Studies of Precursors Used in the Synthesis of C3N4.. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , <b>1998</b> , 7, 992-994	0	

75	Phase Transformations in Heavy Rare Earth Metal Lutetium to 270GPa.. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , <b>1998</b> , 7, 227-229	0	
74	Homoepitaxial diamond films on diamond anvils with metallic probes: the diamond/metal interface up to 74 GPa. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, L67-L73	1.8	13
73	Spatially resolved in situ diagnostics for plasma-enhanced chemical vapor deposition film growth. <i>Review of Scientific Instruments</i> , <b>1997</b> , 68, 1860-1865	1.7	9
72	Pressure-induced blueshift of Nd <sup>3+</sup> fluorescence emission in YAlO <sub>3</sub> : Near infrared pressure sensor. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 2602-2604	3.4	24
71	Resonance Raman and photoluminescence investigations of micro-twins in homoepitaxially grown chemical vapor deposited diamond. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 321-323	3.4	16
70	Growth of Diamond Anvils for High-Pressure Research by Chemical Vapor Deposition. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 499, 179		1
69	Image Plate X-Ray Diffraction Study of Distorted FCC Phase in Rare Earth Metals at High Pressures. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 499, 435		
68	Structure and Stress Evaluation of Diamond Films Deposited on Ti-6Al-4V Alloy at Low Temperature Using CH <sub>4</sub> /O <sub>2</sub> /H <sub>2</sub> and CO/H <sub>2</sub> Gas Mixtures. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 505, 629		2
67	Phase transformation in Mo - Ru alloy induced by laser heating at high pressures. <i>Journal of Physics Condensed Matter</i> , <b>1996</b> , 8, L647-L652	1.8	
66	Micro-raman stress investigations and X-ray diffraction analysis of polycrystalline diamond (PCD) tools. <i>Diamond and Related Materials</i> , <b>1996</b> , 5, 1159-1165	3.5	44
65	Pressure-induced amorphization in gadolinium scandium gallium garnet by x-ray diffraction and spectroscopic studies. <i>Journal of Physics Condensed Matter</i> , <b>1996</b> , 8, L139-L145	1.8	11
64	Diffraction study of actinides under pressure. <i>High Pressure Research</i> , <b>1996</b> , 14, 393-404	1.6	2
63	High-pressure and high-temperature studies on oxide garnets. <i>Physical Review B</i> , <b>1996</b> , 54, 6200-6209	3.3	58
62	Fluorescence emission from high purity synthetic diamond anvil to 370 GPa. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 2049-2051	3.4	19
61	Photoluminescence and x-ray-diffraction studies on Sm-doped yttrium aluminum garnet to ultrahigh pressures of 338 GPa. <i>Journal of Applied Physics</i> , <b>1996</b> , 79, 7978-7982	2.5	15
60	Liu and Vohra Reply. <i>Physical Review Letters</i> , <b>1996</b> , 77, 1661	7.4	3
59	Crystal grain growth during phase transformation in cerium metal at high pressure. <i>Physical Review B</i> , <b>1995</b> , 52, 9107-9110	3.3	21
58	Cubic-to-rhombohedral transformation in boron nitride induced by laser heating: In situ Raman-spectroscopy studies. <i>Physical Review B</i> , <b>1995</b> , 51, 8591-8594	3.3	32

57	Pressure-concentration (P-X) diagram for the Ce-Th alloy system. <i>Scripta Metallurgica Et Materialia</i> , <b>1995</b> , 32, 2081-2085		5
56	High density plasma processing of diamond films on titanium: Residual stress and adhesion measurements. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 7053-7058	2.5	31
55	Homoepitaxial diamond film deposition on a brilliant cut diamond anvil. <i>Applied Physics Letters</i> , <b>1995</b> , 66, 1486-1488	3.4	21
54	Defects and Morphology of Homoepitaxial Diamond Films on Natural Nonplanar and Isotopically Pure Planar Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 416, 63		
53	Defect center in diamond thin films observed by micro-Raman and photoluminescence studies. <i>Physical Review B</i> , <b>1994</b> , 49, 5046-5049	3.3	16
52	Ultrahigh-pressure phase transformations in the Ce <sub>0.43</sub> Th <sub>0.57</sub> alloy: Implications for f-electron behavior under compression. <i>Physical Review B</i> , <b>1994</b> , 50, 2751-2753	3.3	6
51	Sm:YAG optical pressure sensor to 180 GPa: Calibration and structural disorder. <i>Applied Physics Letters</i> , <b>1994</b> , 64, 3386-3388	3.4	39
50	Metastable phases of carbon during fracture of diamond under ultrahigh compressive stresses. <i>Diamond and Related Materials</i> , <b>1994</b> , 3, 1087-1090	3.5	15
49	Raman modes of 6H polytype of silicon carbide to ultrahigh pressures: A comparison with silicon and diamond. <i>Physical Review Letters</i> , <b>1994</b> , 72, 4105-4108	7.4	103
48	Thorium under strong compression – test case for the evaluation of EOS data by different forms and procedures. <i>High Pressure Research</i> , <b>1993</b> , 11, 223-237	1.6	29
47	Phase stability and the equation of state of the transition-metal alloy Mo-Re at high pressure. <i>Physical Review B</i> , <b>1993</b> , 47, 11559-11562	3.3	5
46	Pressure dependence of the fluorescence spectra of the Sm: doped YAG to 73 GPa. <i>Solid State Communications</i> , <b>1993</b> , 88, 417-419	1.6	12
45	Onset of f-bonding in light actinide and lanthanide metals at ultrahigh pressures. <i>Physica B: Condensed Matter</i> , <b>1993</b> , 190, 1-4	2.8	10
44	Isotopically pure diamond anvil for ultrahigh pressure research. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 2860-2862	3.4	13
43	Thorium: Phase transformations and equation of state to 300 GPa. <i>High Pressure Research</i> , <b>1992</b> , 10, 681-685	1.6	12
42	A new ultra-high pressure phase in samarium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1991</b> , 158, 89-92	2.3	23
41	Generating near-earth-core pressures with type-IIa diamonds. <i>Applied Physics Letters</i> , <b>1991</b> , 59, 2681-2682	3.4	2
40	5f bonding in thorium metal at extreme compressions: Phase transitions to 300 GPa. <i>Physical Review Letters</i> , <b>1991</b> , 67, 3563-3566	7.4	80

39	High-pressure optical studies on sulfur to 121 GPa: Optical evidence for metallization. <i>Physical Review Letters</i> , <b>1991</b> , 67, 2998-3001	7.4	86
38	The effect of nonhydrostaticity on measuring the pressure in metals by energy dispersive X-ray diffraction in the diamond anvil cell. <i>High Pressure Research</i> , <b>1991</b> , 6, 183-186	1.6	12
37	Temperature dependence of the omega -bcc phase transition in zirconium metal. <i>Physical Review B</i> , <b>1991</b> , 44, 10374-10376	3.3	72
36	The closing diamond anvil optical window in multimegabar research. <i>Journal of Applied Physics</i> , <b>1991</b> , 69, 6413-6416	2.5	46
35	Miniaturization techniques for obtaining static pressures comparable to the pressure at the center of the earth: X-ray diffraction at 416 GPa. <i>Review of Scientific Instruments</i> , <b>1990</b> , 61, 3830-3833	1.7	124
34	New high-pressure phase transition in zirconium metal. <i>Physical Review Letters</i> , <b>1990</b> , 64, 204-207	7.4	192
33	Static compression of metals Mo, Pb, and Pt to 272 GPa: Comparison with shock data. <i>Physical Review B</i> , <b>1990</b> , 42, 8651-8654	3.3	92
32	bcc lead at 109 GPa: Diffraction studies to 208 GPa. <i>Physical Review B</i> , <b>1990</b> , 41, 7338-7340	3.3	37
31	Pressure dependence of the 4T2 and 4T1 absorption bands of ruby to 35 GPa. <i>Physical Review B</i> , <b>1990</b> , 41, 5372-5381	3.3	107
30	Optical reflectivity and amorphization of GaAs during decompression from megabar pressures. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 2666-2668	3.4	32
29	Crystal structures of group IVa metals at ultrahigh pressures. <i>Physical Review B</i> , <b>1990</b> , 42, 6736-6738	3.3	138
28	Experimental study of the crystal stability and equation of state of Si to 248 GPa. <i>Physical Review B</i> , <b>1990</b> , 41, 12021-12028	3.3	131
27	Optical properties of diamond at pressures of the center of Earth. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 1007-1009	3.4	20
26	Structural phase transitions in InSb to 66 GPa. <i>Physical Review B</i> , <b>1989</b> , 40, 12450-12456	3.3	24
25	Multimegabar pressures using synthetic diamond anvils. <i>Applied Physics Letters</i> , <b>1989</b> , 55, 232-234	3.4	8
24	Evidence for the insulator-metal transition in xenon from optical, x-ray, and band-structure studies to 170 GPa. <i>Physical Review Letters</i> , <b>1989</b> , 62, 669-672	7.4	114
23	Near-infrared photoluminescence bands in diamond. <i>Physical Review B</i> , <b>1989</b> , 39, 5464-5467	3.3	10
22	Structural phase transitions in GaAs to 108 GPa. <i>Physical Review B</i> , <b>1989</b> , 39, 1280-1285	3.3	109

21	Near-infrared photoluminescence due to nitrogen platelets in type Ia diamonds. <i>Solid State Communications</i> , <b>1989</b> , 70, 705-708	1.6	11
20	Tin at high pressure: An energy-dispersive x-ray-diffraction study to 120 GPa. <i>Physical Review B</i> , <b>1989</b> , 39, 10359-10361	3.3	84
19	Optical absorption and reflectivity measurements at ultra high pressures. <i>Scripta Metallurgica</i> , <b>1988</b> , 22, 145-150		4
18	High-pressure x-ray diffraction study of CeO <sub>2</sub> to 70 GPa and pressure-induced phase transformation from the fluorite structure. <i>Physical Review B</i> , <b>1988</b> , 38, 7755-7758	3.3	159
17	Pressure profiles at multimegabar pressures in a diamond anvil cell using x-ray diffraction. <i>Review of Scientific Instruments</i> , <b>1988</b> , 59, 318-321	1.7	15
16	Static pressure of 255 GPa (2.55 Mbar) by x-ray diffraction: Comparison with extrapolation of the ruby pressure scale. <i>Physical Review Letters</i> , <b>1988</b> , 61, 574-577	7.4	37
15	Synthetic diamonds produce pressure of 125 GPa (1.25 Mbar). <i>Journal of Materials Research</i> , <b>1987</b> , 2, 614-618	2.5	5
14	High-pressure studies of NaH to 54 GPa. <i>Physical Review B</i> , <b>1987</b> , 36, 7664-7667	3.3	76
13	High-pressure x-ray-diffraction and optical-absorption studies of NH <sub>4</sub> I to 75 GPa. <i>Physical Review B</i> , <b>1987</b> , 35, 4954-4958	3.3	11
12	Phase transitions in GaSb to 110 GPa (1.1 Mbar). <i>Physical Review B</i> , <b>1987</b> , 36, 4543-4546	3.3	43
11	Polychromatic x-ray beam produced by a wiggler: A new dimension in x-ray diffraction at megabar pressures. <i>Review of Scientific Instruments</i> , <b>1987</b> , 58, 1887-1890	1.7	7
10	Pressure-induced metallization of BaSe. <i>Physical Review B</i> , <b>1987</b> , 35, 874-876	3.3	46
9	hcp to fcc transition in silicon at 78 GPa and studies to 100 GPa. <i>Physical Review Letters</i> , <b>1987</b> , 58, 775-777.4		131
8	High-pressure x-ray diffraction studies on rhenium up to 216 GPa (2.16 Mbar). <i>Physical Review B</i> , <b>1987</b> , 36, 9790-9792	3.3	91
7	Microcollimated energy-dispersive x-ray diffraction apparatus for studies at megabar pressures with a synchrotron source. <i>Review of Scientific Instruments</i> , <b>1986</b> , 57, 2560-2563	1.7	68
6	Phase transition studies of germanium to 1.25 Mbar. <i>Physical Review Letters</i> , <b>1986</b> , 56, 1944-1947	7.4	161
5	High-pressure phase transitions and the equations of state of BaS and BaO. <i>Physical Review B</i> , <b>1986</b> , 33, 4221-4226	3.3	96
4	Band-overlap metallization of cesium iodide. <i>Physical Review Letters</i> , <b>1985</b> , 55, 977-979	7.4	26

- 3 High-pressure phase transitions and equation of state of the III-V compound InAs up to 27 GPa. *Physical Review B*, **1985**, 31, 7344-7348 3.3 79
- 2 High pressure structural phase transitions in Dysprosium to 202 GPa. *High Pressure Research*, 1-10 1.6 0
- 1 Functionally-Graded Biomimetic Vascular Grafts for Enhanced Tissue Regeneration and Bio-integration 235-273