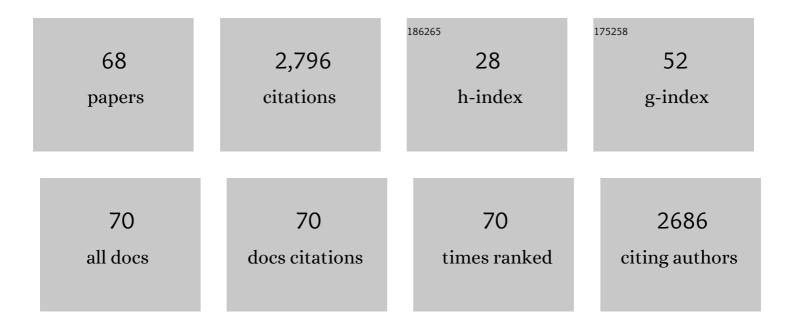
Jiuhua Chen

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Evidence for oxygenation of Fe-Mg oxides at mid-mantle conditions and the rise of deep oxygen. National Science Review, 2021, 8, nwaa096. | 9.5 | 15 |
| 2 | Probing the Electronic Band Gap of Solid Hydrogen by Inelastic X-Ray Scattering up to 90ÂGPa. Physical Review Letters, 2021, 126, 036402. | 7.8 | 6 |
| 3 | Tracking the origin of ultralow velocity zones at the base of Earth's mantle. National Science Review, 2021, 8, nwaa308. | 9.5 | 5 |
| 4 | Superionic iron oxide–hydroxide in Earth's deep mantle. Nature Geoscience, 2021, 14, 174-178. | 12.9 | 36 |
| 5 | Siderite decomposition at room temperature conditions for CO2 capture applications. Brazilian Journal of Chemical Engineering, 2021, 38, 351. | 1.3 | 0 |
| 6 | Mineralogy of the deep lower mantle in the presence of H2O. National Science Review, 2021, 8, nwaa098. | 9.5 | 20 |
| 7 | Study on the High-Pressure Behavior of Goethite up to 32 GPa Using X-Ray Diffraction, Raman, and Electrical Impedance Spectroscopy. Minerals (Basel, Switzerland), 2020, 10, 99. | 2.0 | 6 |
| 8 | Iron oxides as efficient sorbents for CO2 capture. Journal of Materials Research and Technology, 2019, 8, 2944-2956. | 5.8 | 31 |
| 9 | Siderite Formation by Mechanochemical and High Pressure–High Temperature Processes for CO2 Capture Using Iron Ore as the Initial Sorbent. Processes, 2019, 7, 735. | 2.8 | 11 |
| 10 | Effects of water on P-V-T equation of state of pyrope. Physics of the Earth and Planetary Interiors, 2017, 267, 9-18. | 1.9 | 9 |
| 11 | Hydration-reduced lattice thermal conductivity of olivine in Earth's upper mantle. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4078-4081. | 7.1 | 49 |
| 12 | Synchrotron-based high-pressure research in materials science. MRS Bulletin, 2016, 41, 473-478. | 3.5 | 7 |
| 13 | Recent advances in high-pressure science and technology. Matter and Radiation at Extremes, 2016, 1, 59-75. | 3.9 | 98 |
| 14 | Lower-mantle materials under pressure. Science, 2016, 351, 122-123. | 12.6 | 8 |
| 15 | Behavior of decomposed ammonia borane at high pressure. Journal of Physics and Chemistry of Solids, 2015, 84, 75-79. | 4.0 | 8 |
| 16 | Ammonia borane at high pressures. Science Bulletin, 2014, 59, 5227-5234. | 1.7 | 4 |
| 17 | Study of liquid gallium as a function of pressure and temperature using synchrotron x-ray microtomography and x-ray diffraction. Applied Physics Letters, 2014, 105, . | 3.3 | 24 |
| 18 | Equation of state of pyrope–almandine solid solution measured using a diamond anvil cell and in situ synchrotron X-ray diffraction. Physics of the Earth and Planetary Interiors, 2014, 228, 88-91. | 1.9 | 18 |

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| 19 | Phase boundary of pressure-induced I4mm to Cmc21 transition in ammonia borane at elevated temperature determined using Raman spectroscopy. International Journal of Hydrogen Energy, 2014, 39, 8293-8302. | 7.1 | 5 |
| 20 | Synchrotron Mossbauer study of Fe-bearing pyrope at high pressures and temperatures. American Mineralogist, 2013, 98, 1146-1152. | 1.9 | 6 |
| 21 | Ammonia borane at low temperature down to 90ÂK and high pressure up to 15ÂGPa. International Journal of Hydrogen Energy, 2013, 38, 4628-4635. | 7.1 | 16 |
| 22 | Hydrolytic weakening of olivine at mantle pressure: Evidence of [100](010) slip system softening from single-crystal deformation experiments. Physics of the Earth and Planetary Interiors, 2013, 216, 12-20. | 1.9 | 52 |
| 23 | Deformation of periclase single crystals at high pressure and temperature: Quantification of the effect of pressure on slip-system activities. Journal of Applied Physics, 2012, 111, . | 2.5 | 30 |
| 24 | Study of liquid gallium at high pressure using synchrotron x-ray. Journal of Applied Physics, 2012, 111, . | 2.5 | 16 |
| 25 | High-pressure study of lithium amidoborane using Raman spectroscopy and insight into dihydrogen bonding absence. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19140-19144. | 7.1 | 13 |
| 26 | Activities of olivine slip systems in the upper mantle. Physics of the Earth and Planetary Interiors, 2012, 200-201, 105-112. | 1.9 | 34 |
| 27 | High pressure Raman and x-ray diffraction studies on the decomposition of tungsten carbonyl. Journal of Applied Physics, 2012, 111, 112606. | 2.5 | 3 |
| 28 | Tetragonal to orthorhombic phase transition of ammonia borane at low temperature and high pressure. Journal of Applied Physics, 2012, 111, 112618. | 2.5 | 10 |
| 29 | Deformation of olivine at subduction zone conditions determined from in situ measurements with synchrotron radiation. Physics of the Earth and Planetary Interiors, 2011, 186, 23-35. | 1.9 | 30 |
| 30 | Pressure effect on forsterite dislocation slip systems: Implications for upper-mantle LPO and low viscosity zone. Physics of the Earth and Planetary Interiors, 2011, 188, 26-36. | 1.9 | 39 |
| 31 | Comparative in situ X-ray diffraction study of San Carlos olivine: Influence of water on the 410 km seismic velocity jump in Earth's mantle. American Mineralogist, 2011, 96, 697-702. | 1.9 | 10 |
| 32 | Dislocation microstructures in majorite garnet experimentally deformed in the multi-anvil apparatus. American Mineralogist, 2011, 96, 549-552. | 1.9 | 3 |
| 33 | PVT equation of state of epsilon iron and its densities at inner core conditions. American Mineralogist, 2011, 96, 828-832. | 1.9 | 11 |
| 34 | Compressibility of nanocrystalline forsterite. Physics and Chemistry of Minerals, 2010, 37, 343-351. | 0.8 | 11 |
| 35 | Understanding depth variation of deep seismicity from in situ measurements of mineral strengths at high pressures. Journal of Physics and Chemistry of Solids, 2010, 71, 1032-1037. | 4.0 | 2 |
| 36 | Deformation of single crystal sample using D-DIA apparatus coupled with synchrotron X-rays: In situ stress and strain measurements at high pressure and temperature. Journal of Physics and Chemistry of Solids, 2010, 71, 1053-1058. | 4.0 | 13 |

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|----|--|------|-----------|
| 37 | In situ X-ray study of ammonia borane at high pressures. International Journal of Hydrogen Energy, 2010, 35, 11064-11070. | 7.1 | 34 |
| 38 | Ionic high-pressure form of elemental boron. Nature, 2009, 457, 863-867. | 27.8 | 803 |
| 39 | Ionic high-pressure form of elemental boron. Nature, 2009, 460, 292-292. | 27.8 | 34 |
| 40 | The equation of state for periclase. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 737-743. | 1.6 | 8 |
| 41 | Experimental deformation of olivine single crystals at mantle pressures and temperatures. Physics of the Earth and Planetary Interiors, 2009, 172, 74-83. | 1.9 | 85 |
| 42 | Deformation of diopside single crystal at mantle pressure. 1: Mechanical data. Physics of the Earth and Planetary Interiors, 2009, 177, 122-129. | 1.9 | 20 |
| 43 | Strength measurement of boron suboxide B6O at high pressure and temperature using in situ synchrotron X-ray diffraction. High Pressure Research, 2008, 28, 423-430. | 1.2 | 1 |
| 44 | Raman spectroscopy study of ammonia borane at high pressure. Journal of Chemical Physics, 2008, 129, 234509. | 3.0 | 68 |
| 45 | Pressure-induced slip-system transition in forsterite: Single-crystal rheological properties at mantle pressure and temperature. American Mineralogist, 2007, 92, 1436-1445. | 1.9 | 98 |
| 46 | Studies of local and intermediate range structure in crystalline and amorphous materials at high pressure using high-energy X-rays. Powder Diffraction, 2007, 22, 108-112. | 0.2 | 28 |
| 47 | High pressure deformation in two-phase aggregates. Tectonophysics, 2007, 439, 107-117. | 2.2 | 14 |
| 48 | High-temperature elasticity of magnesioferrite spinel. Physics and Chemistry of Minerals, 2007, 34, 345-350. | 0.8 | 13 |
| 49 | Deformation of olivine at mantle pressure using the D-DIA. European Journal of Mineralogy, 2006, 18, 7-19. | 1.3 | 60 |
| 50 | Do Reuss and Voigt bounds really bound in high-pressure rheology experiments?. Journal of Physics Condensed Matter, 2006, 18, S1049-S1059. | 1.8 | 33 |
| 51 | Yield strength enhancement of MgO by nanocrystals. Journal of Materials Science, 2005, 40, 5763-5766. | 3.7 | 22 |
| 52 | High-temperature plasticity measurements using synchrotron X-rays. , 2005, , 123-135. | | 1 |
| 53 | Crystal chemistry of NaMgF3 perovskite at high pressure and temperature. American Mineralogist, 2005, 90, 1534-1539. | 1.9 | 15 |
| 54 | X-ray strain analysis at high pressure: Effect of plastic deformation in MgO. Journal of Applied Physics, 2004, 95, 8357-8365. | 2.5 | 76 |

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|----|--|------|-----------|
| 55 | Anomalous Dynamical Charge Change Behavior of Nanocrystalline 3C-SiC upon Compression. Journal of the American Ceramic Society, 2004, 87, 2291-2293. | 3.8 | 6 |
| 56 | Effect of plasticity on elastic modulus measurements. Geophysical Research Letters, 2004, 31, n/a-n/a. | 4.0 | 68 |
| 57 | Deformation experiments using synchrotron X-rays: in situ stress and strain measurements at high pressure and temperature. Physics of the Earth and Planetary Interiors, 2004, 143-144, 347-356. | 1.9 | 53 |
| 58 | Stress measurements of deforming olivine at high pressure. Physics of the Earth and Planetary Interiors, 2004, 143-144, 357-367. | 1.9 | 58 |
| 59 | Low-temperature olivine rheology at high pressure. Physics of the Earth and Planetary Interiors, 2004, 145, 149-159. | 1.9 | 88 |
| 60 | Flow-law for ringwoodite at subduction zone conditions. Physics of the Earth and Planetary Interiors, 2003, 136, 3-9. | 1.9 | 15 |
| 61 | Olivine flow mechanisms at 8 GPa. Physics of the Earth and Planetary Interiors, 2003, 138, 113-129. | 1.9 | 61 |
| 62 | A process for low-temperature olivine-spinel transition under quasi-hydrostatic stress. Geophysical Research Letters, 2002, 29, 36-1-36-4. | 4.0 | 11 |
| 63 | Effect of water on olivine-wadsleyite phase boundary in the (Mg, Fe)2SiO4system. Geophysical Research Letters, 2002, 29, 22-1-22-4. | 4.0 | 111 |
| 64 | The strength of Mg0.9Fe0.1SiO3 perovskite at high pressure and temperature. Nature, 2002, 419, 824-826. | 27.8 | 79 |
| 65 | Observation of Cation Reordering during the Olivine-Spinel Transition in Fayalite byIn SituSynchrotron X-Ray Diffraction at High Pressure and Temperature. Physical Review Letters, 2001, 86, 4072-4075. | 7.8 | 41 |
| 66 | Subduction zone rheology. Physics of the Earth and Planetary Interiors, 2001, 127, 67-81. | 1.9 | 33 |
| 67 | Strength and water weakening of mantle minerals, olivine, wadsleyite and ringwoodite. Geophysical Research Letters, 1998, 25, 575-578. | 4.0 | 91 |
| 68 | Correction to "Strength and water weakening of mantle minerals, olivine, wadsleyite and ringwoodite― Geophysical Research Letters, 1998, 25, 1103-1104. | 4.0 | 8 |