# Sergey V Ovsyannikov

List of Publications by Year
in descending order



| 146 | 2,602 | 201674 | 254184 |
|---|---|---|---|
| papers | citations | 27 h-index | 43 g-index |

| 154 | 154 | 154 | 2516 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Giant Roomâ€Temperature Power Factor inpâ€Type Thermoelectric SnSe under High Pressure. Advanced Science, 2022, 9, e2103720. | 11.2 | 7 |
| 2 | Structural Diversity of Magnetite and Products of Its Decomposition at Extreme Conditions. Inorganic Chemistry, 2022, 61, 1091-1101. | 4.0 | 7 |
| 3 | Verwey-Type Charge Ordering and Site-Selective Mott Transition in Fe<sub>4</sub>O<sub>5</sub> under Pressure. Journal of the American Chemical Society, 2022, 144, 10259-10269. | 13.7 | 7 |
| 4 | Colossal enhancement of the thermoelectric power factor in stress-released orthorhombic phase of SnTe. Applied Physics Letters, 2021, 118, 103903. | 3.3 | 5 |
| 5 | Discovery of Elgoresyite, (Mg,Fe)5Si2O9: Implications for Novel Iron-Magnesium Silicates in Rocky Planetary Interiors. ACS Earth and Space Chemistry, 2021, 5, 2124-2130. | 2.7 | 6 |
| 6 | Stress-controlled nâ€“p conductivity switch based on intercalated ZrTe2. Applied Physics Letters, 2021, 119, 053103. | 3.3 | 4 |
| 7 | Structural Stability and Properties of Marokite-Type Î³-Mn<sub>3</sub>O<sub>4</sub>. Inorganic Chemistry, 2021, 60, 13440-13452. | 4.0 | 4 |
| 8 | Synthesis of Ilmenite-type Îµ-Mn2O3 and Its Properties. Inorganic Chemistry, 2021, 60, 13348-13358. | 4.0 | 4 |
| 9 | A Roomâ€Temperature Verweyâ€type Transition in Iron Oxide, Fe 5 O 6. Angewandte Chemie, 2020, 132, 5681-5685. | 2.0 | 2 |
| 10 | A Roomâ€Temperature Verweyâ€type Transition in Iron Oxide, Fe<sub>5</sub>O<sub>6</sub>. Angewandte Chemie - International Edition, 2020, 59, 5632-5636. | 13.8 | 17 |
| 11 | Controlling the thermoelectric power of siliconâ€“germanium alloys in different crystalline phases by applying high pressure. CrystEngComm, 2020, 22, 5416-5435. | 2.6 | 17 |
| 12 | Innentitelbild: A Roomâ€Temperature Verweyâ€type Transition in Iron Oxide, Fe<sub>5</sub>O<sub>6</sub> (Angew. Chem. 14/2020). Angewandte Chemie, 2020, 132, 5450-5450. | 2.0 | 0 |
| 13 | Colossal variations in the thermopower and nâ€“p conductivity switching in topological tellurides under pressure. Journal of Applied Physics, 2020, 128, . | 2.5 | 5 |
| 14 | A new (Mg0.5Fe0.53+)(Si0.5Al0.53+)O3 LiNbO3-type phase synthesized at lower mantle conditions. American Mineralogist, 2019, 104, 1213-1216. | 1.9 | 7 |
| 15 | On the Power Factor of Bismuth-Telluride-Based Alloys near Topological Phase Transitions at High Pressures. Semiconductors, 2019, 53, 732-736. | 0.5 | 6 |
| 16 | Strategies and challenges of high-pressure methods applied to thermoelectric materials. Journal of Applied Physics, 2019, 125, . | 2.5 | 46 |
| 17 | Compressibility of two Na-rich clinopyroxenes: A synchrotron single-crystal X-ray diffraction study. American Mineralogist, 2019, 104, 905-913. | 1.9 | 2 |
| 18 | High-pressure synthesis and properties of iron oxides. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e253-e253. | 0.1 | 0 |

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| 19 | Stress-controlled thermoelectric module for energy harvesting and its application for the significant enhancement of the power factor of Bi<sub>2</sub>Te<sub>3</sub>-based thermoelectrics. Journal Physics D: Applied Physics, 2018, 51, 025501. | 2.8 | 18 |
| 20 | Pressure tuning of charge ordering in iron oxide. Nature Communications, 2018, 9, 4142. | 12.8 | 22 |
| 21 | Effect of Fe doping on structure, magnetic and electrical properties La0.7Ca0.3Mn0.5Fe0.5O3 manganite. Ceramics International, 2018, 44, 14974-14979. | 4.8 | 25 |
| 22 | Thermoelectric Properties of Compressed Titanium and Zirconium Trichalcogenides. Journal of Physical Chemistry C, 2018, 122, 14362-14372. | 3.1 | 39 |
| 23 | Spin-induced multiferroicity in the binary perovskite manganite Mn2O3. Nature Communications, 2018, 9, 2996. | 12.8 | 38 |
| 24 | Magneto-orbital texture in the perovskite modification of Mn2O3. Physical Review B, 2018, 98, . | 3.2 | 7 |
| 25 | Tuning the electronic and vibrational properties of Sn<sub>2</sub>P<sub>2</sub>Se<sub>6</sub>and Pb<sub>2</sub>P<sub>2</sub>S<sub>6</sub>crystals and their metallization under high pressure. Dalton Transactions, 2017, 46, 4245-4258. | 3.3 | 17 |
| 26 | Structural and Magnetic Transitions in CaCo<sub>3</sub>V<sub>4</sub>O<sub>12</sub> Perovskite at Extreme Conditions. Inorganic Chemistry, 2017, 56, 6251-6263. | 4.0 | 12 |
| 27 | Dramatic Changes in Thermoelectric Power of Germanium under Pressure: Printing nâ€“p Junctions by Applied Stress. Scientific Reports, 2017, 7, 44220. | 3.3 | 16 |
| 28 | Charge-ordering transition in iron oxide Fe4O5 involving competing dimer and trimer formation. Nature Chemistry, 2016, 8, 501-508. | 13.6 | 54 |
| 29 | Unconventional Electronic Properties of Mg<sub>2</sub>Si Thermoelectrics Revealed by Fast-Neutron-Irradiation Doping. Journal of Physical Chemistry C, 2016, 120, 9692-9701. | 3.1 | 3 |
| 30 | Thermal expansion of monogermanides of 3d-metals. Journal of Physics Condensed Matter, 2016, 28, 375401. | 1.8 | 8 |
| 31 | High-pressure, high-temperature synthesis and properties of the monoclinic phase of Y2O3. Chemical Research in Chinese Universities, 2016, 32, 545-548. | 2.6 | 5 |
| 32 | Discovery of Fe7O9: a new iron oxide with a complex monoclinic structure. Scientific Reports, 2016, 6, 32852. | 3.3 | 50 |
| 33 | Features and regularities in behavior of thermoelectric properties of rare-earth, transition, and other metals under high pressure up to 20â€‰GPa. Journal of Applied Physics, 2015, 118, . | 2.5 | 18 |
| 34 | Structural and vibrational properties of single crystals of Scandia, Sc2O3 under high pressure. Journal of Applied Physics, 2015, 118, . | 2.5 | 21 |
| 35 | Synthesis and High-Pressure Study of Corundum-Type In<sub>2</sub>O<sub>3</sub>. Journal of Physical Chemistry C, 2015, 119, 29076-29087. | 3.1 | 23 |
| 36 | Electronic transport properties ofMFe<sub>2</sub>As<sub>2</sub>(M= Ca, Eu, Sr) at ambient and high pressures up to 20 GPa. Superconductor Science and Technology, 2015, 28, 125010. | 3.5 | 10 |

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| 37 | Enhanced power factor and high-pressure effects in (Bi,Sb)2(Te,Se)3 thermoelectrics. Applied Physics Letters, 2015, 106, . | 3.3 | 41 |
| 38 | Significant enhancement of thermoelectric properties and metallization of Al-doped Mg2Si under pressure. Journal of Applied Physics, 2014, 115, . | 2.5 | 34 |
| 39 | Perovskites: A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable pâ€“n Electrical Conduction (Adv. Mater. 48/2014). Advanced Materials, 2014, 26, 8184-8184. | 21.0 | 1 |
| 40 | X-ray single-crystal and Raman study of knorringite, Mg3(Cr1.58Mg0.21Si0.21)Si3O12, synthesized at 16ÂGPa and 1,600ÂÂ°C. Physics and Chemistry of Minerals, 2014, 41, 267-272. | 0.8 | 8 |
| 41 | A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable pâ€“n Electrical Conduction. Advanced Materials, 2014, 26, 8185-8191. | 21.0 | 44 |
| 42 | Peierls distortion, magnetism, and high hardness of manganese tetraboride. Physical Review B, 2014, 89, . | 3.2 | 53 |
| 43 | Crystal structure and thermal expansion of Mn1â˜'xFexGe. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 676-680. | 1.1 | 15 |
| 44 | Bulk Silicon Crystals with the High Boron Content, Si<sub>1â€“x</sub>B<sub>x</sub>: Two Semiconductors Form an Unusual Metal. Chemistry of Materials, 2014, 26, 5274-5281. | 6.7 | 15 |
| 45 | High-pressure behavior of structural, optical, and electronic transport properties of the golden Th2S3-type Ti2O3. Physical Review B, 2013, 88, . | 3.2 | 24 |
| 46 | Anomalous compression and new high-pressure phases of vanadium sesquioxide, V<sub>2</sub>O<sub>3</sub>. Journal of Physics Condensed Matter, 2013, 25, 385401. | 1.8 | 11 |
| 47 | New Antiferromagnetic Perovskite CaCo<sub>3</sub>V<sub>4</sub>O<sub>12</sub> Prepared at High-Pressure and High-Temperature Conditions. Inorganic Chemistry, 2013, 52, 11703-11710. | 4.0 | 34 |
| 48 | Raman spectroscopy of ferroelectric Sn2P2S6 under high pressure up to 40â€‰GPa: Phase transitions and metallization. Journal of Applied Physics, 2013, 113, . | 2.5 | 19 |
| 49 | Perovskiteâ€like Mn<sub>2</sub>O<sub>3</sub>: A Path to New Manganites. Angewandte Chemie - International Edition, 2013, 52, 1494-1498. | 13.8 | 96 |
| 50 | Thermopower of phases and states of Si under high pressure. Proceedings of SPIE, 2013, , . | 0.8 | 1 |
| 51 | Highâ€pressure study of the thermoelectric properties of various oxides (ZnO,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td [T compounds. Physica Status Solidi (B): Basic Research, 2013, 250, 741-745. | 1.5 | 3 |
| 52 | Thermoelectric Power of Different Phases and States of Silicon at High Pressure. Journal of Electronic Materials, 2013, 42, 2249-2256. | 2.2 | 4 |
| 53 | The determination of hydrogen positions in superhydrous phase B. American Mineralogist, 2013, 98, 1688-1692. | 1.9 | 6 |
| 54 | High-Pressure Treatment up to 25–GPa of Czochralski Grown Si Samples Containing Different Admixtures and Defects. Acta Physica Polonica A, 2013, 124, 244-249. | 0.5 | 2 |

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| 55 | Stability of MnB2 with AlB2-type structure revealed by first-principles calculations and experiments. Applied Physics Letters, 2013, 102, . | 3.3 | 14 |
| 56 | Similar behavior of thermoelectric properties of lanthanides under strong compression up to 20â€‰GPa. Journal of Applied Physics, 2012, 111, 112624. | 2.5 | 13 |
| 57 | â€œSmartâ€•silicon: Switching between pâ€•and nâ€“conduction under compression. Applied Physics Letters, 2012, 101, 062107. | 3.3 | 23 |
| 58 | High-pressure cycling of hematite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>-Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>: Nanostructuring,in situelectronic transport | 3.2 | 17 |
| 59 | Pressure-temperature phase diagram of Ti2O3and physical properties in the golden Th2S3-type phase. Physical Review B, 2012, 86, . | 3.2 | 22 |
| 60 | Stability and breakdown of Ca13CO3 melt associated with formation of 13C-diamond in static high pressure experiments up to 43GPa and 3900K. Journal of Solid State Chemistry, 2012, 191, 102-106. | 2.9 | 28 |
| 61 | Thermoelectric properties of p-Bi2 â˜’ x Sb x Te3 solid solutions under pressure. Physics of the Solid State, 2012, 54, 261-266. | 0.6 | 14 |
| 62 | Analysis of Electron Mobility in Some "Problematic Materials" from Magnetoresistance Effect at High Magnetic Fields. Acta Physica Polonica A, 2012, 122, 544-547. | 0.5 | 3 |
| 63 | High-pressure high-temperature synthesis of Cr2O3and Ga2O3. High Pressure Research, 2011, 31, 23-29. | 1.2 | 26 |
| 64 | Colossal tuning of an energy gap in Sn2P2S6 under pressure. Applied Physics Letters, 2011, 99, . | 3.3 | 19 |
| 65 | Ambient- and low-temperature synchrotron x-ray diffraction study of BaFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mro | 3.2 | 101 |
| 66 | Electrical and mechanical properties of multi-phase systems under external impacts. , 2011, , . | | 1 |
| 67 | New high-pressureâ€“high-temperature forms in sesquioxides. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C327-C327. | 0.3 | 0 |
| 68 | Measurement of Seebeck effect (thermoelectric power) at high pressure up to 40 GPa. Journal of Physics and Chemistry of Solids, 2010, 71, 1168-1174. | 4.0 | 26 |
| 69 | Pressure cycling of InN to 20 GPa: In situ transport properties and amorphization. Applied Physics Letters, 2010, 97, 032105. | 3.3 | 14 |
| 70 | Structural stability of a golden semiconducting orthorhombic polymorph of Ti<sub>2</sub>O<sub>3</sub>under high pressures and high temperatures. Journal of Physics Condensed Matter, 2010, 22, 375402. | 1.8 | 37 |
| 71 | Tuning of the stoichiometry of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>by compression. Physical Review B, 2010, 81, . | 3.2 | 19 |
| 72 | High-pressure thermopower technique and its application. Journal of Physics: Conference Series, 2010, 215, 012185. | 0.4 | 5 |

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| 73 | Raman spectroscopy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>B</mml:mtext><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>B</mml:mtext><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Physical Review B, 2010, 81, . | 3.2 | 18 |
| 74 | High-Pressure Routes in the Thermoelectricity or How One Can Improve a Performance of Thermoelectrics. Chemistry of Materials, 2010, 22, 635-647. | 6.7 | 126 |
| 75 | Boron and Boron-Rich Solids at High Pressures. NATO Science for Peace and Security Series B: Physics and Biophysics, 2010, , 241-249. | 0.3 | 2 |
| 76 | Electronic properties and phase transitions in Si, ZnSe, and GaAs under pressure cycling up to 20â€“30 GPa in a highâ€pressure cell. Physica Status Solidi (B): Basic Research, 2009, 246, 604-611. | 1.5 | 9 |
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| 78 | Galvanomagnetic properties of fast neutron bombarded Fe3O4 magnetite: A case against charge ordering mechanism of the Verwey transition. Solid State Communications, 2009, 149, 759-762. | 1.9 | 18 |
| 79 | Is the Verwey transition in Fe3O4magnetite driven by a Peierls distortion?. Journal of Physics Condensed Matter, 2009, 21, 271001. | 1.8 | 8 |
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| 82 | A Raman study of high-pressure phases of lead chalcogenides PbX (X=S, Se, Te). High Pressure Research, 2009, 29, 224-229. | 1.2 | 15 |
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| 85 | Raman characterization of hydrogen ion implanted silicon: â€œHigh-dose effectâ€?. Physica B: Condensed Matter, 2008, 403, 3424-3428. | 2.7 | 10 |
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| 94 | Effect of hydrogen implantation on semiconductorâ€“metal transition and high-pressure thermopower in Si. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 343-346. | 5.6 | 6 |
| 95 | Raman spectra of (PbS)1.18(TiS2)2 misfit compound. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 422-426. | 5.6 | 16 |
| 96 | Variations of high-pressure thermoelectric and mechanical properties of Si single crystals under doping with N and Pâ€“T pre-treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 347-350. | 5.6 | 4 |
| 97 | Thermoelectric power and phase transitions in lanthanides under pressure up to 20GPa. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 427-431. | 5.6 | 8 |
| 98 | Ultrahigh-pressure effects in metallo-organics. Physica Status Solidi (B): Basic Research, 2007, 244, 418-423. | 1.5 | 5 |
| 99 | Pressure-induced insulatorâ€“metal transition in a novel layer metalloorganic structure. Physica Status Solidi (B): Basic Research, 2007, 244, 174-178. | 1.5 | 3 |
| 100 | Thermoelectric properties and phase transitions of IIâ€“VI semiconductors at high pressure. Physica Status Solidi (B): Basic Research, 2007, 244, 437-442. | 1.5 | 38 |
| 101 | High-pressure X-ray diffraction study of ternary and non-stoichiometric PbTe and PbSe crystals. Physica Status Solidi (B): Basic Research, 2007, 244, 279-284. | 1.5 | 22 |
| 102 | Thermoelectric properties of La0.75Ca0.25MnO3 manganite at ultrahigh pressures up to 20 GPa. JETP Letters, 2007, 85, 203-207. | 1.4 | 3 |
| 103 | Observation of a new high-pressure semimetal phase of GaAs from pressure dependence of the thermopower. Journal of Physics Condensed Matter, 2006, 18, L551-L557. | 1.8 | 15 |
| 104 | Structure of the intermediate high-pressure phases of ternary lead tellurides. JETP Letters, 2006, 83, 228-232. | 1.4 | 17 |
| 105 | Features of the semiconductor-metal transition in GaAs at ultrahigh pressures: New intermediate phases. JETP Letters, 2006, 84, 21-26. | 1.4 | 10 |
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| 112 | Phase transitions in PbSe under actions of fast neutron bombardment and pressure. Journal of Physics Condensed Matter, 2005, 17, S3179-S3183. | 1.8 | 11 |
| 113 | Fast neutron bombardment induced semiconductor-metal electron transition in lead selenide. Technical Physics Letters, 2004, 30, 328-331. | 0.7 | 4 |
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| 117 | Influence ofPâ€“T pre-treatment on thermopower of Czochralski-grown silicon at high pressure. Physica Status Solidi (B): Basic Research, 2004, 241, 3242-3247. | 1.5 | 6 |
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| 120 | Raman spectra of lead chalcogenide single crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3110-3113. | 0.8 | 25 |
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| 122 | Pressure-induced phase transitions in Si observed by thermoelectric power measurements. Solid State Communications, 2004, 132, 545-549. | 1.9 | 15 |
| 123 | Thermomagnetic and thermoelectric properties of semiconductors (PbTe, PbSe) at ultrahigh pressures. Physica B: Condensed Matter, 2004, 344, 190-194. | 2.7 | 21 |
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| 126 | Electronic properties of multiphase systems with varying configuration of inclusions. , 2004, 5342, 239. | | 2 |

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| 132 | Thermo-and galvanomagnetic properties of lead chalcogenides at high pressures up to 20 GPa. JETP Letters, 2003, 77, 88-93. | 1.4 | 12 |
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| 136 | Measurement of thermoelectric, galvanomagnetic, and thermomagnetic effects at ultrahigh pressure. , 2003, , . | | 0 |
| 137 | Thermo- and galvanomagnetic properties of hetrophases materials of high pressure. , 2003, 4979, 582. | | 2 |
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