

List of published scientific papers and conferences

ARTICLES

Publications in refereed Institute for Scientific Information (ISI) database (with full name of the publication and DOI link).

1. R. Sereika, P. Liu, B. Kim, S. Kim, J. Zhang, B. Chen, K. Yamaura, C. Park, C. Franchini, Y. Ding, H-k. Mao. *Aberrant electronic and structural alterations in pressure tuned perovskite NaOsO₃*, npj Quantum Mater. **5**, 66 (2020). DOI: [10.1038/s41535-020-00269-3](https://doi.org/10.1038/s41535-020-00269-3)
2. R. Sereika, C. Park, C. Kenney-Benson, S. Bandaru, N. J. English, Q. Yin, H. Lei, N. Chen, C.-J. Sun, S. M. Heald, J. Ren, J. Chang, Y. Ding, H-k. Mao, *Novel Superstructure-Phase Two-Dimensional Material 1T-VSe₂ at High Pressure*, J. Phys. Chem. Lett. **11** (2), 380 – 386 (2020). DOI: [10.1021/acs.jpcclett.9b03247](https://doi.org/10.1021/acs.jpcclett.9b03247)
3. B. Chen, E. M. Pärshcke, W.-C. Chen, B. Scoggins, B. Li, M. Balasubramanian, S. Heald, J. Zhang, H. Deng, R. Sereika, Y. Sorb, X. Yin, Y. Bi, K. Jin, Q. Wu, C.-C. Chen, Y. Ding, H-k. Mao, *Probing Cerium 4f States across the Volume Collapse Transition by X-ray Raman Scattering*, J. Phys. Chem. Lett. **10** (24), 7890 – 7897 (2019). DOI: [10.1021/acs.jpcclett.9b02819](https://doi.org/10.1021/acs.jpcclett.9b02819)
4. R. Sereika, R. Žaltauskas, V. Lapeika, S. Stanionytė, R. Juškėnas, *Structural Changes in Chlorine-Substituted SbSI*, J. Appl. Phys. **126**, 114101 (2019). DOI: [10.1063/1.5117334](https://doi.org/10.1063/1.5117334)
5. J. Zhang, D. Yan, S. Yesudhas, H. Deng, H. Xiao, B. Chen, R. Sereika, X. Yin, C. Yi, Y. Shi, Z. Liu, E. M. Pärshcke, C.-C. Chen, J. Chang, Y. Ding, H-k. Mao, *Lattice Frustration in Spin-Orbit Mott Insulator Sr₃Ir₂O₇ at High Pressure*, npj Quantum Mater. **4**, 23 (2019). DOI: [10.1038/s41535-019-0162-3](https://doi.org/10.1038/s41535-019-0162-3)
6. R. Sereika, K. Yamaura, Y. Jia, S. Zhang, C. Jin, H. Yoon, M. Y. Jeong, M. J. Han, D. L. Brewes, S. M. Heald, S. Sinogeikin, Y. Ding, H-k. Mao, *Anomalous behavior of the quasi-one-dimensional quantum material Na₂OsO₄ at high pressure*, Mater. Today Phys. **8**, 18 – 24 (2019). DOI: [10.1016/j.mtphys.2018.12.001](https://doi.org/10.1016/j.mtphys.2018.12.001)
7. R. Sereika, W. Wu, C. Park, C. Kenney-Benson, D. L. Brewes, S. M. Heald, J. Zhang, S. Yesudhas, H. Deng, B. Chen, J. Luo, Y. Ding, H-k. Mao, *Prolonged mixed phase induced by high pressure in MnRuP*, Phys. Rev. B **97**, 214103 (2018). DOI: [10.1103/PhysRevB.97.214103](https://doi.org/10.1103/PhysRevB.97.214103)
8. R. E. Brandt, J. R. Poindexter, P. Gorai, R. C. Kurchin, R. L. Z. Hoyer, L. Nienhaus, M. W. B. Wilson, J. A. Polizzotti, R. Sereika, R. Žaltauskas, L. C. Lee, J. L. MacManus-Driscoll, M. Bawendi, V. Stevanović, T. Buonassisi, *Searching for “Defect-Tolerant” Photovoltaic Materials: Combined Theoretical and Experimental Screening*, Chem. Mater. **29** (11), 4667 – 4674 (2017). DOI: [10.1021/acs.chemmater.6b05496](https://doi.org/10.1021/acs.chemmater.6b05496)
9. A. Audzijonis, R. Žaltauskas, R. Sereika, V. Lapeika, L. Žigas, *Birefringence of SbSI and SbSeI crystals at the region of antiferroelectric phase transition*, Phase Transit. **90** (3), 312 – 316 (2017). DOI: [10.1080/01411594.2016.1192168](https://doi.org/10.1080/01411594.2016.1192168)
10. R. Sereika, S. Kaciulis, A. Mezzi, M. Brucale, *Chemical composition study of vanadium pentoxide xerogels doped by bovine albumin*, Surf. Rev. Lett. **23** (6), 1650058 (2016). DOI: [10.1142/S0218625X1650058X](https://doi.org/10.1142/S0218625X1650058X)
11. A. Audzijonis, R. Sereika, L. Žigas, R. Žaltauskas, *Dielectric and electrical properties of SbSI and SbSeI single crystals in the region of antiferroelectric phase transition*, J. Phys. Chem. Solids. **83**, 117 – 120 (2015). DOI: [10.1016/j.jpcs.2015.04.003](https://doi.org/10.1016/j.jpcs.2015.04.003)
12. A. Audzijonis, L. Žigas, R. Žaltauskas, R. Sereika, *Origin of ferroelectric phase transition in SbOxSI–xI mixed crystals*, Int. J. Mod. Phys. B. **29** (23), 1550167 (2015). DOI: [10.1142/S0217979215501672](https://doi.org/10.1142/S0217979215501672)

13. R. Rimeika, A. Sereika, D. Čiplys, R. Sereika, V. Bondarenka, M. Shur, *Acoustoelectric investigation of $V_2O_5 \cdot nH_2O$ thin film transition from wet gel to xerogel*, J. Non-Cryst. Solids **425** (1), 24 – 27 (2015). DOI: [10.1016/j.jnoncrysol.2015.05.029](https://doi.org/10.1016/j.jnoncrysol.2015.05.029)
14. R. Sereika, V. Bondarenka, R. Rimeika, A. Sereika, D. Čiplys, *Impact of humidity on surface acoustic wave propagation in vanadium pentoxide xerogel - lithium niobate structure*, Jpn. J. Appl. Phys. **53** (11), 118004 (2014). DOI: [10.7567/JJAP.53.118004](https://doi.org/10.7567/JJAP.53.118004)
15. V. Bondarenka, V. Jasulaitienė, R. Sereika, A. Stirkė, *Sol–gel synthesis and XPS study of vanadium pentoxide xerogels intercalated with glucose*, J. Sol-Gel Sci. Technol. **71** (3), 385 – 390 (2014). DOI: [10.1007/s10971-014-3385-6](https://doi.org/10.1007/s10971-014-3385-6)
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17. A. Audzijonis, R. Sereika, *On the heat capacities of SbSI and SbSBr*, Ferroelectr. Lett. **41**, 51 – 55 (2014). DOI: [10.1080/07315171.2014.908687](https://doi.org/10.1080/07315171.2014.908687)
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33. A. Audzijonis, G. Gaigalas, L. Žigas, R. Sereika, A. Čerškus, A. Pauliukas, R. Žaltauskas, *Investigation of the Vibrational Spectra of a SbSI(Sb₂S₃)_{0.15} Crystals in Harmonic and Anharmonic Approximations*, Ferroelectrics **377**, 22 – 35 (2008). DOI: [10.1080/00150190802523529](https://doi.org/10.1080/00150190802523529)
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35. A. Audzijonis, A. Rėza, R. Žaltauskas, L. Žigas, R. Sereika, C. Paškevič, A. Pauliukas, *Spectroscopic ellipsometry studies of ferroelectric SbSe_xS_{1-x}I crystals*, Ferroelectrics **366**, 45 – 54 (2008). DOI: [10.1080/00150190802363124](https://doi.org/10.1080/00150190802363124)
36. P. Pipinys, R. Sereika, *Comment on 'Conductivity of single Mo₆S_{9-x}I_x molecular nanowire bundles'*, Nanotechnology **18** (50), 508001 – 508002 (2007). DOI: [10.1088/0957-4484/18/50/508001](https://doi.org/10.1088/0957-4484/18/50/508001)
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Other journals and proceedings.

1. R. Sereika, *Kuo ypatingos grafeno tipo medžiagos: neįprasti dvimačių medžiagų struktūriniai pokyčiai esant aukštam slėgiui* (Article in Lith. language). [Electronic resource]: web site www.technologijos.lt (2020-03-25).
2. R. Sereika, R. Bobinienė, V. Semaška, D. Gudavičiūtė, D. Vencius, *Chemical composition study of standard chicken serum*, Vet. Med. Zoot. **74** (96), 55 – 58 (2016). Web link: vetzoo.lsmuni.lt/2016-74-en
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BOOKS AND BOOK CHAPTERS

1. A. Audzijonis, L. Žigas, R. Sereika, R. Žaltauskas, *Electronic structure and piezoelectric properties of SbSI crystals*, Piezoelectric materials / edited by Toshio Ogawa. ISBN 9789535125587 P. 83-126, 2016. Open access. DOI: [10.5772/61563](https://doi.org/10.5772/61563)

CONFERENCE MATERIALS

1. R. Sereika, K. Yamaura, C. Jin, M. J. Han, Y. Ding, *Study of Magnetically Silent Na₂OsO₄ Under High Pressure*, STAC-11: The 11th International Conference on the Science and Technology for Advanced Ceramics. Solid State Chemistry section. Japan, Tsukuba, 9-11 July, 2019, 2p-202B-01. (Invited speaker)
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5. V. Sirvydis, R. Sereika, R. Bobinienė, V. Semaška, D. Gudavičiūtė, D. Vencius, *Chemical composition study of standard chicken serum*, WPC2016. XXV world’s poultry congress 2016: China, Beijing, 5-9 September, 2016, p. 173.
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10. R. Sereika, V. Bondarenka, S. Kačiulis, A. Mezzi, *Chemical composition study of vanadium pentoxide xerogels doped by bovine albumin*, 4th International Colloids Conference: Surface Design & Engineering: Spain, Madrid, 15-18 June, 2014, P2.66.

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12. A. Audzijonis, L. Žigas, R. Žaltauskas, R. Sereika, A. Kvedaravičius, V. Šiaudvytis, *Investigation of the optical properties of SbSeBr*, 39th Lithuanian National Physics Conference, 6-8 October, ISBN 9789955634645. Vilnius, Lithuania, 2011, P. 40.
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15. R. Sereika, A. Budinavičius, S. Garunkštis, *First principles density functional calculations of electronic structure and optical properties in BiSBr and BiSeBr crystals*, Laisvieji skaitymai 2010: 53rd scientific conference for young students of physics and natural sciences [2010 March 24-27, 2010, Vilnius, Lithuania] P. 51-52.
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