Alla Arakcheeva

List of Publications by Year in descending order

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Διιλ Δρακαμεενά

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Optically switched magnetism in photovoltaic perovskite CH3NH3(Mn:Pb)I3. Nature Communications, 2016, 7, 13406. | 12.8 | 106 |
| 2 | Ultrasensitive 3D Aerosol-Jet-Printed Perovskite X-ray Photodetector. ACS Nano, 2021, 15, 4077-4084. | 14.6 | 71 |
| 3 | The modulated structure of Ba0.39Sr0.61Nb2O6. I. Harmonic solution. Acta Crystallographica Section B: Structural Science, 2003, 59, 28-35. | 1.8 | 70 |
| 4 | The luminescence of NaxEu3+(2â^'x)/3MoO4scheelites depends on the number of Eu-clusters occurring in their incommensurately modulated structure. Chemical Science, 2012, 3, 384-390. | 7.4 | 63 |
| 5 | The self-hosting structure of β-Ta. Acta Crystallographica Section B: Structural Science, 2002, 58, 1-7. | 1.8 | 57 |
| 6 | Na _{2/7} Gd _{4/7} MoO ₄ : a Modulated Scheelite-Type Structure and Conductivity Properties. Inorganic Chemistry, 2012, 51, 5313-5324. | 4.0 | 54 |
| 7 | Application of micro X-ray diffraction to investigate the reaction products formed by the alkali–silica reaction in concrete structures. Cement and Concrete Research, 2016, 79, 49-56. | 11.0 | 52 |
| 8 | KNd(MoO4)2:Â A New Incommensurate Modulated Structure in the Scheelite Family. Chemistry of Materials, 2006, 18, 4075-4082. | 6.7 | 47 |
| 9 | The Room-Temperature Superstructure of ZrP2O7 Is Orthorhombic:  There Are No Unusual 180° Pâ^'Oâ^'P Bond Angles. Inorganic Chemistry, 2006, 45, 4346-4351. | 4.0 | 41 |
| 10 | CH ₃ NH ₃ PbI ₃ : precise structural consequences of water absorption at ambient conditions. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 716-722. | 1.1 | 37 |
| 11 | Preferential out-of-plane conduction and quasi-one-dimensional electronic states in layered 1T-TaS2. Npj 2D Materials and Applications, 2020, 4, . | 7.9 | 34 |
| 12 | Capabilities and limitations of a (3â€+â€ <i>d</i>)-dimensional incommensurately modulated structure as a model for the derivation of an extended family of compounds: example of the scheelite-like structures. Acta Crystallographica Section B: Structural Science, 2008, 64, 12-25. | 1.8 | 29 |
| 13 | KSm(MoO ₄) ₂ , an incommensurately modulated and partially disordered scheelite-like structure. Acta Crystallographica Section B: Structural Science, 2008, 64, 160-171. | 1.8 | 29 |
| 14 | Crystal Structure and Optical and Magnetic Properties of Pr ₂ (MoO ₄) ₃ . Inorganic Chemistry, 2010, 49, 1587-1594. | 4.0 | 29 |
| 15 | KEu(MoO ₄) ₂ : Polymorphism, Structures, and Luminescent Properties. Chemistry of Materials, 2015, 27, 5519-5530. | 6.7 | 29 |
| 16 | The role of silver on the stabilization of the incommensurately modulated structure in calaverite, AuTe2. American Mineralogist, 2009, 94, 728-736. | 1.9 | 25 |
| 17 | Incommensurate crystal structure of PbHfO ₃ . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 7-12. | 1.1 | 25 |
| 18 | The incommensurately modulated structures of natural natrite at 120 and 293 K from synchrotron X-ray data. American Mineralogist, 2010, 95, 574-581. | 1.9 | 23 |

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|----|---|---------|---------------|
| 19 | A reinterpretation of the phase transitions in Na2CO3. Acta Crystallographica Section B: Structural Science, 2005, 61, 601-607. | 1.8 | 22 |
| 20 | The commensurate composite σ-structure of β-tantalum. Acta Crystallographica Section B: Structural Science, 2003, 59, 324-336. | 1.8 | 19 |
| 21 | Controlling structural and magnetic properties of IONPs by aqueous synthesis for improved hyperthermia. RSC Advances, 2017, 7, 13159-13170. | 3.6 | 19 |
| 22 | Hexagonal ferrites: a unified model of the (TS) _{<i>n</i>} T series in superspace. Acta Crystallographica Section B: Structural Science, 2007, 63, 703-712. | 1.8 | 18 |
| 23 | Synthesis, growth and characterization of 4-bromo-4â€2-nitrobenzylidene aniline (BNBA): a novel nonlinear optical material with a (3+1)-dimensional incommensurately modulated structure. CrystEngComm, 2013, 15, 2474. | 2.6 | 17 |
| 24 | New insight into the pectolite – serandite series: a single crystal diffraction study of Na(Ca1.73Mn0.27)[HSi3O9] at 293 and 100 K. Zeitschrift Fur Kristallographie - Crystalline Materials, 2007, 222, 696-704. | 0.8 | 14 |
| 25 | Cimetidine, C ₁₀ H ₁₆ N ₆ S, form C: crystal structure and modelling of polytypes using the superspace approach. Journal of Applied Crystallography, 2013, 46, 99-107. | 4.5 | 14 |
| 26 | (BEDT-TTF)2Cu2(CN)3 Spin Liquid: Beyond the Average Structure. Crystals, 2018, 8, 158. | 2.2 | 14 |
| 27 | Crystal structure of loparite. Crystallography Reports, 2000, 45, 210-214. | 0.6 | 12 |
| 28 | The crystal structure of lewisite, (Ca,Sb3+,Fe3+,Al,Na,Mn,â–¡)2(Sb5+,Ti)2O6(OH). Journal of Alloys and Compounds, 2000, 296, 75-79. | 5.5 | 11 |
| 29 | Getting more out of an incommensurately modulated structure: the example of K5Yb(MoO4)4. Acta Crystallographica Section B: Structural Science, 2006, 62, 52-59. | 1.8 | 11 |
| 30 | Cyan titania nanowires: Spectroscopic study of the origin of the self-doping enhanced photocatalytic activity. Catalysis Today, 2017, 284, 52-58. | 4.4 | 10 |
| 31 | New boron-oxygen layer in the structure of barium hydrodecaborate Ba5[B20O33(OH)4] â‹ H2O. Crystallography Reports, 2000, 45, 405-409. | 0.6 | 9 |
| 32 | Structure studies of solid solutions of oxygen in electrolytic niobium. Crystallography Reports, 2002, 47, 237-244. | 0.6 | 9 |
| 33 | LiZnNb4O11.5: A novel oxygen deficient compound in the Nb-rich part of the Li2O–ZnO–Nb2O5 system. Journal of Solid State Chemistry, 2010, 183, 408-418. | 2.9 | 9 |
| 34 | A novel perovskite-like Ta-bronze KTa1+z O3: preparation, stoichiometry, conductivity and crystal structure studies. Acta Crystallographica Section B: Structural Science, 2001, 57, 157-162. | 1.8 | 8 |
| 35 | The incommensurate structure of K3In(PO4)2. Acta Crystallographica Section B: Structural Science, 2003, 59, 17-27. | 1.8 | 8 |
| 36 | Structure type of hexagonal tantalum bronzes with variable composition K6Ta6 + Z O15F6(F, O)y: Ta(5 â^') Tj E | FQq0001 | rgBT /Overloc |

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| # | Article | lF | CITATIONS |
|----|---|-----|-----------|
| 37 | The role of second coordination-sphere interactions in incommensurately modulated structures, using β-K5Yb(MoO4)4 as an example. Acta Crystallographica Section B: Structural Science, 2005, 61, 400-406. | 1.8 | 8 |
| 38 | Validating the model of a (3 + 1)-dimensional incommensurately modulated structure as generator of a family of compounds for the Eu ₂ (MoO ₄) ₃ scheelite structure. Philosophical Magazine Letters, 2009, 89, 257-266. | 1.2 | 8 |
| 39 | Crystal Structure, Transport, and Magnetic Properties of an Ir6+ Compound Ba8Al2IrO14. Inorganic Chemistry, 2015, 54, 4371-4376. | 4.0 | 8 |
| 40 | Defect structure of TiS3 single crystals of the A-ZrSe3 type. Crystallography Reports, 2016, 61, 923-930. | 0.6 | 8 |
| 41 | Perovskite-like modification of Cs3Sb2I9 as a member of theOD family A3B2X9. Journal of Structural Chemistry, 1999, 40, 572-579. | 1.0 | 7 |
| 42 | Magnetic properties and crystal structure of \hat{I}^2 -Ta. Crystallography Reports, 2004, 49, 930-935. | 0.6 | 7 |
| 43 | Effect of Thermal Cycling on the Structural Evolution of Methylammonium Lead Iodide Monitored around the Phase Transition Temperatures. Solar Rrl, 2019, 3, 1900044. | 5.8 | 7 |
| 44 | Incommensurate atomic density waves in the high-pressure IVb phase of barium. IUCrJ, 2017, 4, 152-157. | 2.2 | 7 |
| 45 | Crystal structure of new decaborate Na2Ba2[B10O17(OH)2]. Crystallography Reports, 2002, 47, 24-28. | 0.6 | 6 |
| 46 | X-ray mapping in heterocyclic design: IX. X-ray structure investigation of conjugated aminodienes. Crystallography Reports, 2002, 47, 973-978. | 0.6 | 6 |
| 47 | High-Pressure Synthesis of Rare-Earth Borate-Nitrate Crystals for Second Harmonic Generation. Inorganic Chemistry, 2021, 60, 286-291. | 4.0 | 6 |
| 48 | Crystal structure and resistivity characteristics of new tantalum bronze K6Ta6.5O15 + x F6 + y. Crystallography Reports, 2001, 46, 182-189. | 0.6 | 5 |
| 49 | Sr ₂ Pt _{8â^'<i>x</i>} As: a layered incommensurately modulated metal with saturated resistivity. IUCrJ, 2018, 5, 470-477. | 2.2 | 5 |
| 50 | Ordering of Ca and Sr atoms in (Ca0.5Sr0.5)(Cu0.75Bi0.25)O2 single crystals of CaCuO2-type structure. Journal of Physics and Chemistry of Solids, 1995, 56, 925-933. | 4.0 | 4 |
| 51 | Cation ordering in Y,Tb-(123)-type structures. Superconductor Science and Technology, 1995, 8, 540-545. | 3.5 | 4 |
| 52 | Analysis of the structure of an amorphous sediment obtained upon decomposition of potassium oxofluroniobate in water. Crystallography Reports, 2002, 47, 555-558. | 0.6 | 4 |
| 53 | The study of incommensurate structures as a probe to reveal atomic interactions in crystals. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, . | 0.8 | 4 |
| 54 | Single crystals of superconductingSmFeAsOHx: Structure and properties. Physical Review B, 2016, 94, . | 3.2 | 4 |

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|----|--|-----|-----------|
| 55 | Pressure-induced transformation of CH ₃ NH ₃ PbI ₃ : the role of the noble-gas pressure transmitting media. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 361-370. | 1.1 | 4 |
| 56 | Title is missing!. Doklady Chemistry, 2002, 382, 5-8. | 0.9 | 3 |
| 57 | Atomic clusters and phase transitions in the metastable β-Ta phase between 4.2 and 293 K. Europhysics Letters, 2005, 69, 378-384. | 2.0 | 3 |
| 58 | Influence of the organic cation disorder on photoconductivity in ethylenediammonium lead iodide, NH ₃ CH ₂ CH ₂ NH ₃ PbI ₄ . CrystEngComm, 2018, 20, 3543-3549. | 2.6 | 3 |
| 59 | The influence of the incommensurately modulated structure on the physical properties of Fe1.35Ge. Journal of Alloys and Compounds, 2019, 794, 108-113. | 5.5 | 3 |
| 60 | Fast Lead-Free Humidity Sensor Based on Hybrid Halide Perovskite. Crystals, 2022, 12, 547. | 2.2 | 3 |
| 61 | Electrocrystallization of β-tantalum in salt melts. Doklady Chemistry, 2008, 423, 269-272. | 0.9 | 2 |
| 62 | The aperiodic nature of incommensurately modulated structures. Rendiconti Lincei, 2013, 24, 77-84. | 2.2 | 2 |
| 63 | High-pressure transformation of MAPbI ₃ : role of the noble-gas medium. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1416-C1416. | 0.1 | 2 |
| 64 | Fragmentary analysis of crystal structures of the Al, Ca-ferrite phase (Fe, Ca)4(Fe, Al)2CaFe(Al, Fe)2O14. Journal of Structural Chemistry, 1994, 35, 647-657. | 1.0 | 1 |
| 65 | Specific features of the crystal structure and magnetic properties of KTaO3 produced by electrolysis of melts. Crystallography Reports, 2005, 50, 779-784. | 0.6 | 1 |
| 66 | Electrochemical synthesis of tantalum monoxide nanoneedles in molten salts. Doklady Chemistry, 2009, 428, 218-221. | 0.9 | 1 |
| 67 | Influence of the cation sublattice on the growth, structure and properties of single crystals of 123- and 2212-type high-Tc superconductors. Journal of Crystal Growth, 1996, 167, 102-106. | 1.5 | 0 |
| 68 | Possibility of an unconventional spin state ofIr4+inBa21Ir9O43single crystal. Physical Review B, 2016, 94, . | 3.2 | 0 |
| 69 | One-dimensional composite host–guest structure in BaVS ₃ . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 115-122. | 1.1 | 0 |
| 70 | Superspace approach applied to the Y series of hexagonal ferrites. Acta Crystallographica Section A: Foundations and Advances, 2004, 60, s36-s36. | 0.3 | 0 |
| 71 | Crystallographic aspect of the phase transitions in Na2CO3. Acta Crystallographica Section A: Foundations and Advances, 2004, 60, s182-s182. | 0.3 | 0 |
| 72 | Simulation of a polytypic family from an incommensurately modulated member. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, c49-c49. | 0.3 | 0 |

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| 73 | Superspace embedding of sheelite-like structures. Acta Crystallographica Section A: Foundations and Advances, 2006, 62, s46-s46. | 0.3 | 0 |
| 74 | Can superspace reinvent crystal chemistry?. Acta Crystallographica Section A: Foundations and Advances, 2007, 63, s93-s93. | 0.3 | 0 |
| 75 | The (3+1)-dimensional scheelite structure type. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, C618-C618. | 0.3 | 0 |
| 76 | A few applications of the superspace approach in mineralogy. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s48-s48. | 0.3 | 0 |
| 77 | Organic-inorganic hybrid perovskite CH3NH3PbI3: structural consequences of water absorption. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s294-s295. | 0.1 | 0 |
| 78 | Electronic properties of incommensurately modulated novel and complex materials. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e96-e96. | 0.1 | 0 |
| 79 | Self-flux-grown Ba ₄ Fe ₄ ClO _{9.5â^'<i>x</i>} crystals exhibiting structures with tunable modulation. CrystEngComm 0 | 2.6 | О |