# Pavel Zelenovskiy

List of Publications by Year
in descending order



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|---|---|---|---|
| 89 papers | 1,506 citations | 304368 22 h-index | 377514 34 g-index |
| 89 all docs | 89 docs citations | 89 times ranked | 1635 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Piezoactive dense diphenylalanine thin films via solid-phase crystallization. Applied Materials Today, 2022, 26, 101261. | 2.3 | 4 |
| 2 | Modeling and physical properties of diphenylalanine peptide nanotubes containing water molecules. Ferroelectrics, 2021, 574, 78-91. | 0.3 | 11 |
| 3 | Micro-Raman domain imaging in calcium orthovanadate single crystals. Ferroelectrics, 2021, 576, 85-93. | 0.3 | 6 |
| 4 | Glassy chalcogenide composites under high pressure. Journal of Physics and Chemistry of Solids, 2021, 152, 109954. | 1.9 | 1 |
| 5 | 2D Layered Dipeptide Crystals for Piezoelectric Applications. Advanced Functional Materials, 2021, 31, 2102524. | 7.8 | 21 |
| 6 | Modeling of Self-Assembled Peptide Nanotubes and Determination of Their Chirality Sign Based on Dipole Moment Calculations. Nanomaterials, 2021, 11, 2415. | 1.9 | 11 |
| 7 | 2D Layered Dipeptide Crystals for Piezoelectric Applications (Adv. Funct. Mater. 43/2021). Advanced Functional Materials, 2021, 31, 2170320. | 7.8 | 2 |
| 8 | Domain Switching by Electron Beam Irradiation in SBN61:Ce Single Crystals Covered by Dielectric Layer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 191-196. | 1.7 | 6 |
| 9 | New insights on Raman spectrum of Kâ€bearing tourmaline. Journal of Raman Spectroscopy, 2020, 51, 1415-1424. | 1.2 | 6 |
| 10 | A combined Raman spectroscopy, cathodoluminescence, and electron backscatter diffraction study of kyanite porphyroblasts from diamondiferous and diamondâ€free metamorphic rocks (Kokchetav massif). Journal of Raman Spectroscopy, 2020, 51, 1425-1437. | 1.2 | 5 |
| 11 | An Investigative Study on the Effect of Pre-Coating Polymer Solutions on the Fabrication of Low Cost Anti-Adhesive Release Paper. Nanomaterials, 2020, 10, 1436. | 1.9 | 4 |
| 12 | Structures and Properties of the Self-Assembling Diphenylalanine Peptide Nanotubes Containing Water Molecules: Modeling and Data Analysis. Nanomaterials, 2020, 10, 1999. | 1.9 | 21 |
| 13 | Microâ€Raman study of crichtonite group minerals enclosed into mantle garnet. Journal of Raman Spectroscopy, 2020, 51, 1493-1512. | 1.2 | 7 |
| 14 | Molecular modeling and computational study of the chiral-dependent structures and properties of the self-assembling diphenylalanine peptide nanotubes, containing water molecules. Journal of Molecular Modeling, 2020, 26, 326. | 0.8 | 7 |
| 15 | The effect of water molecules on elastic and piezoelectric properties of diphenylalanine microtubes. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1474-1477. | 1.8 | 4 |
| 16 | Efficient Water Self-Diffusion in Diphenylalanine Peptide Nanotubes. ACS Applied Materials & Interfaces, 2020, 12, 27485-27492. | 4.0 | 17 |
| 17 | Raman Spectra of Diphenylalanine Microtubes: Polarisation and Temperature Effects. Crystals, 2020, 10, 224. | 1.0 | 13 |
| 18 | Precise control of the size and gap between gold nanocubes by surface-based synthesis for high SERS performance. Soft Matter, 2020, 16, 1857-1865. | 1.2 | 10 |

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|---|---|---|---|
| 19 | Effect of ferroelectric domains on electric properties of single layer graphene. Ferroelectrics, 2019, 542, 93-101. | 0.3 | 2 |
| 20 | Raman study of pyroelectric and injected charge induced fields in PLZT 8/65/35 ceramics. Ferroelectrics, 2019, 542, 102-111. | 0.3 | 0 |
| 21 | Effect of High Pressures on the Electrical and Structural Properties of Fullerene Ð¡70. Bulletin of the Russian Academy of Sciences: Physics, 2019, 83, 730-732. | 0.1 | 1 |
| 22 | Micro-Raman Imaging of Ferroelectric Domain Structures in the Bulk of PMN-PT Single Crystals. Crystals, 2019, 9, 65. | 1.0 | 10 |
| 23 | Chirality-Dependent Growth of Self-Assembled Diphenylalanine Microtubes. Crystal Growth and Design, 2019, 19, 6414-6421. | 1.4 | 38 |
| 24 | Highly luminescent Znâ€"Cuâ€"Inâ€"S/ZnS core/gradient shell quantum dots prepared from indium sulfide by cation exchange for cell labeling and polymer composites. Nanotechnology, 2019, 30, 395603. | 1.3 | 12 |
| 25 | Molecular modeling and computational study of the chiral-dependent structures and properties of self-assembling diphenylalanine peptide nanotubes. Journal of Molecular Modeling, 2019, 25, 199. | 0.8 | 27 |
| 26 | Phase distribution and corresponding piezoelectric responses in a morphotropic phase boundary Pb(Mg Nb )O3-PbTiO3 single crystal revealed by confocal Raman spectroscopy and piezo-response force microscopy. Journal of the European Ceramic Society, 2019, 39, 4131-4138. | 2.8 | 10 |
| 27 | Controlled Growth of Stable Î²-Glycine via Inkjet Printing. Crystal Growth and Design, 2019, 19, 3869-3875. | 1.4 | 9 |
| 28 | The Mechanism of Disordered Graphite Formation in UHP Diamond-Bearing Complexes. Doklady Earth Sciences, 2019, 484, 84-88. | 0.2 | 1 |
| 29 | Thermal destruction of giant polyoxometalate nanoclusters: A vibrational spectroscopy study. Inorganica Chimica Acta, 2019, 489, 287-300. | 1.2 | 30 |
| 30 | Chiral Peculiar Properties of Self-Organization of Diphenylalanine Peptide Nanotubes: Modeling Of Structure and Properties. Mathematical Biology and Bioinformatics, 2019, 14, 94-125. | 0.1 | 11 |
| 31 | The mechanism of disordered graphite formation in uph diamond-bearing complexes. Proceedings of the Academy of Sciences, 2019, 484, 215-219. | 0.1 | 0 |
| 32 | Diphenylalanine-Based Microribbons for Piezoelectric Applications via Inkjet Printing. ACS Applied Materials & Interfaces, 2018, 10, 10543-10551. | 4.0 | 34 |
| 33 | Immobilization of PMIDA on Fe3O4 magnetic nanoparticles surface: Mechanism of bonding. Applied Surface Science, 2018, 440, 1196-1203. | 3.1 | 35 |
| 34 | Investigation of physical properties of diphenylalanine peptide nanotubes having different chiralities and embedded water molecules. Ferroelectrics, 2018, 525, 168-177. | 0.3 | 11 |
| 35 | Piezoelectric properties and Young's moduli of diphenylalanine microtubesâ€"oxide nanoparticles composites. Ferroelectrics, 2018, 525, 146-155. | 0.3 | 4 |
| 36 | Dispersion relations and lattice dynamics of diphenylalanine nanotubes. Journal of Physics: Conference Series, 2018, 1092, 012172. | 0.3 | 0 |

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|---|---|---|---|
| 37 | Symmetry changes during relaxation process and pulse discharge performance of the BaTiO3-Bi(Mg1/2Ti1/2)O3 ceramic. Journal of Applied Physics, 2018, 124, . | 1.1 | 31 |
| 38 | Colloidal branched CdSe/CdS â€˜nanospidersâ€™ with 2D/1D heterostructure. Nanotechnology, 2018, 29, 395604. | 1.3 | 3 |
| 39 | Piezoactive amino acid derivatives containing fragments of planar-chiral <i>ortho</i>-carboranes. Journal of Materials Chemistry C, 2018, 6, 8638-8645. | 2.7 | 9 |
| 40 | High Resolution Piezoresponse Force Microscopy Study of Self-Assembled Peptide Nanotubes. MRS Advances, 2017, 2, 63-69. | 0.5 | 0 |
| 41 | Raman study of structural transformations in selfâ€assembled diphenylalanine nanotubes at elevated temperatures. Journal of Raman Spectroscopy, 2017, 48, 1401-1405. | 1.2 | 30 |
| 42 | Raman spectroscopy, â€œbig dataâ€, and local heterogeneity of solid state synthesized lithium titanate. Journal of Power Sources, 2017, 346, 143-150. | 4.0 | 24 |
| 43 | Morphology and piezoelectric characterization of thin films and microcrystals of ortho-carboranyl derivatives of (S)-glutamine and (S)-asparagine. Ferroelectrics, 2017, 509, 113-123. | 0.3 | 10 |
| 44 | Graphiteâ€bearing mineral assemblages in the mantle beneath Central Aldan superterrane of North Asian craton: combined confocal microâ€Raman and electron microprobe characterization. Journal of Raman Spectroscopy, 2017, 48, 1597-1605. | 1.2 | 12 |
| 45 | Self-Assembly of Organic Ferroelectrics by Evaporative Dewetting: A Case of Î²-Glycine. ACS Applied Materials & Interfaces, 2017, 9, 20029-20037. | 4.0 | 23 |
| 46 | Raman spectroscopy and theoretic study of hyperpolarizability effect in diiodobutenylâ€<i>bis</i>â€thioquinolinium triiodide at low temperature. Journal of Raman Spectroscopy, 2017, 48, 1411-1413. | 1.2 | 16 |
| 47 | Formation of self-organized domain structures with charged domain walls in lithium niobate with surface layer modified by proton exchange. Journal of Applied Physics, 2017, 121, 104101. | 1.1 | 15 |
| 48 | Forbidden mineral assemblage coesiteâ€disordered graphite in diamondâ€bearing kyanite gneisses (Kokchetav Massif). Journal of Raman Spectroscopy, 2017, 48, 1606-1612. | 1.2 | 12 |
| 49 | Investigation of domain walls in PPLN by confocal raman microscopy and PCA analysis. Journal of Physics: Conference Series, 2017, 879, 012001. | 0.3 | 1 |
| 50 | Relaxation behavior and electrical inhomogeneity in 0.9BaTiO3-0.1Bi(Mg1/2Ti1/2)O3 ceramic. Ceramics International, 2017, 43, 12828-12834. | 2.3 | 11 |
| 51 | Single particle structure characterization of solid-state synthesized Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub>. Journal of Raman Spectroscopy, 2017, 48, 278-283. | 1.2 | 9 |
| 52 | Local Youngâ€™s moduli of as-grown and annealed diphenylalanine nanotubes. IOP Conference Series: Materials Science and Engineering, 2017, 256, 012012. | 0.3 | 2 |
| 53 | Formation of snowflake domains during fast cooling of lithium tantalate crystals. Journal of Applied Physics, 2016, 119, . | 1.1 | 11 |
| 54 | Spin coating formation of self-assembled ferroelectric Î²-glycine films. Ferroelectrics, 2016, 496, 10-19. | 0.3 | 5 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 55 | Piezoelectric and ferroelectric properties of organic single crystals and films derived from chiral 2-methoxy and 2-amino acids. Ferroelectrics, 2016, 496, 1-9. | 0.3 | 13 |
| 56 | Glycine nanostructures and domains in beta-glycine: computational modeling and PFM observations. Ferroelectrics, 2016, 496, 28-45. | 0.3 | 9 |
| 57 | Investigation of domain kinetics in congruent lithium niobate modified by proton exchange. Ferroelectrics, 2016, 496, 110-119. | 0.3 | 4 |
| 58 | The first finding of graphite inclusion in diamond from mantle rocks: The result of the study of eclogite xenolith from Udachnaya pipe (Siberian craton). Doklady Earth Sciences, 2016, 469, 870-873. | 0.2 | 2 |
| 59 | Graphite-diamond relations in mantle rocks: Evidence from an eclogitic xenolith from the Udachnaya kimberlite (Siberian Craton). American Mineralogist, 2016, 101, 2155-2167. | 0.9 | 14 |
| 60 | On the origin of the great rigidity of self-assembled diphenylalanine nanotubes. Physical Chemistry Chemical Physics, 2016, 18, 29681-29685. | 1.3 | 46 |
| 61 | Correspondence: Reply to â€˜On the nature of strong piezoelectricity in graphene on SiO2â€™. Nature Communications, 2016, 7, 11571. | 5.8 | 3 |
| 62 | Piezoelectric properties of diphenylalanine microtubes prepared from the solution. Journal of Physics and Chemistry of Solids, 2016, 93, 68-72. | 1.9 | 81 |
| 63 | Evaporation-Driven Crystallization of Diphenylalanine Microtubes for Microelectronic Applications. Crystal Growth and Design, 2016, 16, 1472-1479. | 1.4 | 33 |
| 64 | Structural transitions in double-walled carbon nanotubes at high pressure. Journal of Physics: Conference Series, 2015, 653, 012097. | 0.3 | 1 |
| 65 | Internal diamond morphology: Raman imaging of metamorphic diamonds. Journal of Raman Spectroscopy, 2015, 46, 880-888. | 1.2 | 13 |
| 66 | Morphology and Piezoelectric Properties of Diphenylalanine Microcrystals Grown from Methanol-Water Solution. Ferroelectrics, 2015, 475, 127-134. | 0.3 | 15 |
| 67 | Local manifestations of a static magnetoelectric effect in nanostructured BaTiO<sub>3</sub>â€“BaFe<sub>12</sub>O<sub>9</sub>composite multiferroics. Nanoscale, 2015, 7, 4489-4496. | 2.8 | 32 |
| 68 | Patterning and nanoscale characterization of ferroelectric amino acid beta-glycine. , 2015, , . |  | 4 |
| 69 | Strong piezoelectricity in single-layer graphene deposited on SiO2 grating substrates. Nature Communications, 2015, 6, 7572. | 5.8 | 141 |
| 70 | Formation of Broad Domain Boundary in Congruent Lithium Niobate Modified by Proton Exchange. Ferroelectrics, 2015, 476, 146-155. | 0.3 | 7 |
| 71 | Formation of self-assembled nanodomain structures in single crystals of uniaxial ferroelectrics lithium niobate, lithium tantalate and strontiumâ€“barium niobate. Journal of Advanced Dielectrics, 2014, 04, 1450006. | 1.5 | 3 |
| 72 | Energy harvesting from nanofibers of hybrid organic ferroelectric dabcoHReO4. Applied Physics Letters, 2014, 104, . | 1.5 | 22 |

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|---|---|---|---|
| 73 | Growth and Nonlinear Optical Properties of Î2-Glycine Crystals Grown on Pt Substrates. Crystal Growth and Design, 2014, 14, 2831-2837. | 1.4 | 42 |
| 74 | <i>In</i> <i>Situ</i> Observation of the Humidity Controlled Polymorphic Phase Transformation in Glycine Microcrystals. Crystal Growth and Design, 2014, 14, 4138-4142. | 1.4 | 31 |
| 75 | Micro- and nanodomain imaging in uniaxial ferroelectrics: Joint application of optical, confocal Raman, and piezoelectric force microscopy. Journal of Applied Physics, 2014, 116, . | 1.1 | 61 |
| 76 | Structural transformations in single-wall carbon nanotubes under high pressure. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 285-287. | 0.1 | 3 |
| 77 | Effects of non-hydrostatic pressure on electrical resistance of bundled single-wall carbon nanotubes. IOP Conference Series: Materials Science and Engineering, 2013, 48, 012013. | 0.3 | 2 |
| 78 | Nanodomain structures formation during polarization reversal in uniform electric field in strontium barium niobate single crystals. Journal of Applied Physics, 2012, 112, . | 1.1 | 30 |
| 79 | Micro-Raman Visualization of Domain Structure in Strontium Barium Niobate Single Crystals. Ferroelectrics, 2012, 439, 33-39. | 0.3 | 12 |
| 80 | Domain Kinetics in Lithium Niobate Single Crystals with Photoresist Dielectric Layer. Ferroelectrics, 2012, 439, 3-12. | 0.3 | 11 |
| 81 | Investigation of the nanodomain structure formation by piezoelectric force microscopy and Raman confocal microscopy in LiNbO3 and LiTaO3 crystals. Journal of Applied Physics, 2011, 110, 052013. | 1.1 | 65 |
| 82 | Visualization of nanodomains in lithium niobate single crystals by scanning laser confocal Raman microscopy. Physics of the Solid State, 2011, 53, 109-113. | 0.2 | 9 |
| 83 | Raman visualization of micro- and nanoscale domain structures inÂlithium niobate. Applied Physics A: Materials Science and Processing, 2010, 99, 741-744. | 1.1 | 61 |
| 84 | Study of Nanoscale Domain Structure Formation Using Raman Confocal Microscopy. Ferroelectrics, 2010, 398, 91-97. | 0.3 | 20 |
| 85 | Raman Study of Neutral and Charged Domain Walls in Lithium Niobate. Ferroelectrics, 2010, 398, 34-41. | 0.3 | 29 |
| 86 | Formation of Nano-Scale Domain Structures in Lithium Niobate Using High-Intensity Laser Irradiation. Ferroelectrics, 2008, 373, 133-138. | 0.3 | 26 |
| 87 | Discrete Switching by Growth of Nano-Scale Domain Rays Under Highly-Nonequilibrium Conditions in Lithium Niobate Single Crystals. Ferroelectrics, 2008, 373, 99-108. | 0.3 | 26 |
| 88 | Nanoscale Domain Effects in Ferroelectrics. Formation and Evolution of Self-Assembled Structures in LiNbO<sub>3</sub>and LiTaO<sub>3</sub>. Ferroelectrics, 2007, 354, 145-157. | 0.3 | 19 |
| 89 | Physical ferroelectric and chiral properties of various dipeptide nanotubes and nanostructures. , 0, , . | | 1 |