# Lukyanchuk A Igor

List of Publications by Year
in descending order



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|---|---|---|---|
| 128 papers | 3,249 citations | 159585 30 h-index | 161849 54 g-index |
| 129 all docs | 129 docs citations | 129 times ranked | 3435 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Negative capacitance in multidomain ferroelectric superlattices. Nature, 2016, 534, 524-528. | 27.8 | 286 |
| 2 | Phase Analysis of Quantum Oscillations in Graphite. Physical Review Letters, 2004, 93, 166402. | 7.8 | 234 |
| 3 | Ferroelectric negative capacitance. Nature Reviews Materials, 2019, 4, 243-256. | 48.7 | 179 |
| 4 | Domain-Enhanced Interlayer Coupling in Ferroelectric/Paraelectric Superlattices. Physical Review Letters, 2005, 94, 047601. | 7.8 | 156 |
| 5 | Symmetry Relationship and Strain-Induced Transitions between Insulating M1 and M2 and Metallic R phases of Vanadium Dioxide. Nano Letters, 2010, 10, 4409-4416. | 9.1 | 149 |
| 6 | Ferroelectric transition in an epitaxial barium titanate thin film: Raman spectroscopy and x-ray diffraction study. Journal of Applied Physics, 2003, 94, 3307-3312. | 2.5 | 138 |
| 7 | Interplay between Ferroelastic and Metalâ^'Insulator Phase Transitions in Strained Quasi-Two-Dimensional VO<sub>2</sub> Nanoplatelets. Nano Letters, 2010, 10, 2003-2011. | 9.1 | 101 |
| 8 | Landau thermodynamic potential for BaTiO3. Journal of Applied Physics, 2007, 101, 104115. | 2.5 | 99 |
| 9 | Dirac and Normal Fermions in Graphite and Graphene: Implications of the Quantum Hall Effect. Physical Review Letters, 2006, 97, 256801. | 7.8 | 95 |
| 10 | Lead-free nanocomposite piezoelectric nanogenerator film for biomechanical energy harvesting. Nano Energy, 2021, 81, 105661. | 16.0 | 79 |
| 11 | Mesoscopic Metalâ^'Insulator Transition at Ferroelastic Domain Walls in VO<sub>2</sub>. ACS Nano, 2010, 4, 4412-4419. | 14.6 | 68 |
| 12 | Magnetic properties of graphene quantum dots. Physical Review B, 2013, 87, . | 3.2 | 52 |
| 13 | Universal Properties of Ferroelectric Domains. Physical Review Letters, 2009, 102, 147601. | 7.8 | 51 |
| 14 | Modeling of ferroelectric domains in thin films and superlattices. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 120, 16-20. | 3.5 | 48 |
| 15 | Electro-optical properties of phosphorene quantum dots. Physical Review B, 2017, 96, . | 3.2 | 48 |
| 16 | Insulator-metal transition in Rb4C60 under pressure from 13C-NMR. Journal of Physics and Chemistry of Solids, 1996, 57, 143-152. | 4.0 | 47 |
| 17 | Enhancement of dielectric properties of lead-free BCZT ferroelectric ceramics by grain size engineering. Superlattices and Microstructures, 2019, 127, 109-117. | 3.1 | 47 |
| 18 | Hopfions emerge in ferroelectrics. Nature Communications, 2020, 11, 2433. | 12.8 | 47 |

| # | Article | IF | Citations |
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| 19 | High energy storage efficiency and large electrocaloric effect in lead-free BaTi0.89Sn0.11O3 ceramic. Ceramics International, 2020, 46, 23867-23876. | 4.8 | 47 |
| 20 | Origin of ferroelastic domains in free-standing single-crystal ferroelectric films. Physical Review B, 2009, 79, . | 3.2 | 46 |
| 21 | Ferroelectric symmetry-protected multibit memory cell. Scientific Reports, 2017, 7, 42196. | 3.3 | 45 |
| 22 | Enhanced dielectric and electrocaloric properties in lead-free rod-like BCZT ceramics. Journal of Advanced Ceramics, 2020, 9, 210-219. | 17.4 | 45 |
| 23 | Theory of superconductors withÎºclose to1/2. Physical Review B, 2001, 63, . | 3.2 | 43 |
| 24 | Thermally-stable high energy storage performances and large electrocaloric effect over a broad temperature span in lead-free BCZT ceramic. RSC Advances, 2020, 10, 30746-30755. | 3.6 | 43 |
| 25 | Electronic localization inRb4C60from bulk magnetic measurements. Physical Review B, 1995, 51, 3978-3980. | 3.2 | 38 |
| 26 | STABILITY OF VORTEX PHASES IN FERROELECTRIC EASY-PLANE NANO-CYLINDERS. Integrated Ferroelectrics, 2008, 99, 60-66. | 0.7 | 36 |
| 27 | Harnessing ferroelectric domains for negative capacitance. Communications Physics, 2019, 2, . | 5.3 | 36 |
| 28 | Phase transition in a single VO2 nano-crystal: potential femtosecond tunable opto-electronic nano-gating. Journal of Nanoparticle Research, 2014, 16, 1. | 1.9 | 34 |
| 29 | Electro-absorption of silicene and bilayer graphene quantum dots. Journal of Applied Physics, 2016, 120, . | 2.5 | 34 |
| 30 | Searching for the Fractional Quantum Hall Effect in Graphite. Physical Review Letters, 2009, 103, 116802. | 7.8 | 33 |
| 31 | Thermal-stability of the enhanced piezoelectric, energy storage and electrocaloric properties of a lead-free BCZT ceramic. RSC Advances, 2021, 11, 9459-9468. | 3.6 | 33 |
| 32 | On the nature of phase transitions in the tetragonal tungsten bronze GdK<sub>2</sub>Nb<sub>5</sub>O<sub>15</sub> ceramics. Journal of Applied Physics, 2014, 115, 064104. | 2.5 | 31 |
| 33 | Giant Nernst-Ettingshausen Oscillations in Semiclassically Strong Magnetic Fields. Physical Review Letters, 2011, 107, 016601. | 7.8 | 30 |
| 34 | Lattice-Induced Double-Valley Degeneracy Lifting in Graphene by a Magnetic Field. Physical Review Letters, 2008, 100, 176404. | 7.8 | 27 |
| 35 | Interaction of vortices in superconductors withÎºclose to1/2. Physical Review B, 2002, 65, . | 3.2 | 26 |
| 36 | Controllable skyrmion chirality in ferroelectrics. Scientific Reports, 2020, 10, 8657. | 3.3 | 26 |

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| 37 | Phase transition between the cholesteric and twist grain boundaryCphases. Physical Review E, 1998, 57, 574-581. | 2.1 | 25 |
| 38 | High-Symmetry Polarization Domains in Low-Symmetry Ferroelectrics. Nano Letters, 2014, 14, 6931-6935. | 9.1 | 24 |
| 39 | Highâ€resolution13C nuclear magnetic resonance in alkali intercalated fullerene C60. Journal of Chemical Physics, 1994, 101, 4585-4592. | 3.0 | 23 |
| 40 | Dielectric properties and relaxation phenomena in the diffuse ferroelectric phase transition in K3Li2Nb5O15 ceramic. European Physical Journal B, 2012, 85, 1. | 1.5 | 22 |
| 41 | Rayleigh instability of confined vortex droplets in critical superconductors. Nature Physics, 2015, 11, 21-25. | 16.7 | 22 |
| 42 | Basal-plane incommensurate phases in hexagonal-close-packed structures. Physical Review B, 1998, 57, 5086-5092. | 3.2 | 21 |
| 43 | Anomalous thermoelectric and thermomagnetic properties of graphene. Physics-Uspekhi, 2012, 55, 1146-1151. | 2.2 | 21 |
| 44 | Dirac Fermions in graphite: The state of art. Physica B: Condensed Matter, 2009, 404, 404-406. | 2.7 | 20 |
| 45 | Polarization vortex domains induced by switching electric field in ferroelectric films with circular electrodes. Physical Review B, 2014, 90, . | 3.2 | 20 |
| 46 | De Haasâ€“van Alphen effect in 2D systems: application to mono- and bilayer graphene. Low Temperature Physics, 2011, 37, 45-48. | 0.6 | 18 |
| 47 | A novel type of incommensurate phase in quartz: The elongated-triangle phase. JETP Letters, 1996, 64, 410-415. | 1.4 | 17 |
| 48 | High-resolutionC13NMR study of oxygen intercalation inC60. Physical Review B, 1996, 53, 7535-7538. | 3.2 | 17 |
| 49 | Multidomain switching in the ferroelectric nanodots. Europhysics Letters, 2015, 111, 50001. | 2.0 | 16 |
| 50 | Effect of wall thickness on the ferroelastic domain size of BaTiO3. Journal of Materials Science, 2009, 44, 5307-5311. | 3.7 | 15 |
| 51 | Density of states in randomly shaped graphene quantum dots. Superlattices and Microstructures, 2011, 49, 283-287. | 3.1 | 15 |
| 52 | Electronic and magnetic properties of graphite quantum dots. Low Temperature Physics, 2015, 41, 396-400. | 0.6 | 15 |
| 53 | Multilayer phosphorene quantum dots in an electric field: Energy levels and optical absorption. Journal of Applied Physics, 2018, 124, . | 2.5 | 15 |
| 54 | Impedance spectroscopy analysis of the diffuse phase transition in lead-free (Ba0,85Ca0,15)(Zr0.1Ti0.9)O3 ceramic elaborated by sol-gel method. Superlattices and Microstructures, 2019, 127, 71-79. | 3.1 | 14 |

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| 55 | Observation of Unconventional Dynamics of Domain Walls in Uniaxial Ferroelectric Lead Germanate. Advanced Functional Materials, 2020, 30, 2000284. | 14.9 | 14 |
| 56 | Quantum oscillations as the tool for study of new functional materials (Review Article). Low Temperature Physics, 2014, 40, 270-279. | 0.6 | 12 |
| 57 | Tuning of zero energy states in quantum dots of Silicene and bilayer graphene by electric field. Superlattices and Microstructures, 2015, 87, 137-142. | 3.1 | 12 |
| 58 | Dynamics of field-induced polarization reversal in thin strained perovskite ferroelectric films with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>c</mml:mi></mml:math>-oriented polarization. Physical Review B, 2015, 91, . | 3.2 | 12 |
| 59 | Application of Generalized Reedâ€“Muller Expression for Development of Non-Binary Circuits. Electronics (Switzerland), 2020, 9, 12. | 3.1 | 12 |
| 60 | Insulator-metal transition in Rb4C60 under pressure: Jahn-Teller theory versus NMR experiments. Synthetic Metals, 1996, 77, 205-208. | 3.9 | 11 |
| 61 | Thermodynamics of the incommensurate state inRb2WO4:The Lifshitz point inA2BX4compounds. Physical Review B, 2000, 61, 3147-3150. | 3.2 | 11 |
| 62 | Phase diagrams of ferroelectric thin film with two surface layers. EPJ Applied Physics, 2009, 48, 10503. | 0.7 | 11 |
| 63 | Structural, dielectric and electrocaloric properties of (Ba0.85Ca0.15)(Ti0.9Zr0.1â^'xSnx)O3 ceramics elaborated by solâ€“gel method. Journal of Materials Science: Materials in Electronics, 2019, 30, 14099-14111. | 2.2 | 11 |
| 64 | Study of new rare earth family Pb1.6K1.2R0.2Nb5O15 (R=La, Nd, Sm, Eu and Gd) of tetragonal tungsten bronze-type ferroelectrics. Solid State Communications, 2004, 130, 777-781. | 1.9 | 10 |
| 65 | Phase diagram and dielectric properties of ferroelectric ceramics. Superlattices and Microstructures, 2011, 49, 300-306. | 3.1 | 10 |
| 66 | Vortex state in thin films of multicomponent ferroelectrics. Thin Solid Films, 2011, 519, 5808-5810. | 1.8 | 10 |
| 67 | Studies of Diffuse Phase Transition in Ferroelectric Solid Solution Pb<sub>1-x</sub>K<sub>2x</sub>Nb<sub>2</sub>O<sub>6</sub> (x = 0.1, 0.2, 0.25 and 0.3). Ferroelectrics, 2013, 444, 116-124. | 0.6 | 10 |
| 68 | Development of Programmable Logic Array for Multiple-Valued Logic Functions. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 4854-4866. | 2.7 | 10 |
| 69 | Comment on â€œConsistent Interpretation of the Low-Temperature Magnetotransport in Graphite Using the Slonczewski-Weiss-McClure 3D Band-Structure Calculationsâ€• Physical Review Letters, 2010, 104, 119701; author reply 119702. | 7.8 | 9 |
| 70 | Charge ordering in amorphous WOx films. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 368, 419-422. | 2.1 | 8 |
| 71 | Switching Properties of Nano-scale Multi-axial Ferroelectrics: Geometry and Interface Effects. Integrated Ferroelectrics, 2012, 133, 96-102. | 0.7 | 8 |
| 72 | Frequency Dependence of the Dielectric Permittivity in Ferroelectric Thin Films with 180Â° Domain Structure. Ferroelectrics, 2013, 444, 177-182. | 0.6 | 8 |

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| 73 | Domain textures of multi-qmodulated phases. Ferroelectrics, 1997, 191, 267-273. | 0.6 | 7 |
| 74 | Ferroelectric Domains in Thin Films and Superlattices: Results of Numerical Modeling. Ferroelectrics, 2007, 359, 14-20. | 0.6 | 7 |
| 75 | Coexistence of the soft mode and sub-THz central peak in ferroelectric BaTiO3/(Ba,Sr)TiO3 superlattices. Superlattices and Microstructures, 2015, 87, 19-24. | 3.1 | 7 |
| 76 | Ferroelectric Phase in Barium Titanate Epitaxial Thin Film. Ferroelectrics, 2003, 291, 55-64. | 0.6 | 6 |
| 77 | Superconducting RNi2B2C (R = Y, Lu) nanoparticles: Size effects and weak links. Advanced Materials, 1997, 9, 503-506. | 21.0 | 5 |
| 78 | Ferroelectric Phases in Rare-Earth TTB Ferroelectric Compounds Pb<sub>2(1 - x)</sub>K<sub>(1 +) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 0.6 | 5 |
| 79 | Monte Carlo Study of Ferroelectric Properties of Tetragonal Tungsten Bronze Compounds. Ferroelectrics, 2010, 397, 1-8. | 0.6 | 5 |
| 80 | Inhomogeneous Polarization Switching in Finite-Size Cubic Ferroelectrics. Ferroelectrics, 2012, 427, 34-40. | 0.6 | 5 |
| 81 | Resistive Switching Hysteresis in Thin Films of Bismuth Ferrite. Ferroelectrics, 2013, 444, 183-189. | 0.6 | 5 |
| 82 | Impedance spectroscopy studies on lead free Ba 1-x Mg x (Ti 0.9 Zr 0.1 )O 3 ceramics. Superlattices and Microstructures, 2018, 118, 45-54. | 3.1 | 5 |
| 83 | Synthesis of La0.5Ca0.5â˜'xâ–¡xMnO3 nanocrystalline manganites by sucrose assisted auto combustion route and study of their structural, magnetic and magnetocaloric properties. Journal of Materials Science: Materials in Electronics, 2019, 30, 20459-20470. | 2.2 | 5 |
| 84 | Crystal Structure and the Spectral Response of the Baâ€Đoped SrTiO 3 Incipient Ferroelectrics. Physica Status Solidi (B): Basic Research, 2021, 258, 2100010. | 1.5 | 5 |
| 85 | Conductivity and field and current distributions in a two-component system composed of regular triangles. Journal of Experimental and Theoretical Physics, 2002, 94, 203-215. | 0.9 | 4 |
| 86 | Catalytic behaviors of ruthenium dioxide films deposited on ferroelectrics substrates, by spin coating process. Applied Surface Science, 2007, 254, 1399-1404. | 6.1 | 4 |
| 87 | The transverse spin-12 Ising order-disorder superlattice. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 127-138. | 2.6 | 4 |
| 88 | Dielectric and structural properties of diffuse ferroelectric phase transition in Pb<sub>1.85</sub>K<sub>1.15</sub>Li<sub>0.15</sub>Nb<sub>5</sub>O<sub>15</sub>ceramic. EPJ Applied Physics, 2011, 53, 20901. | 0.7 | 4 |
| 89 | Field-induced vortices in weakly anisotropic ferroelectrics. Superlattices and Microstructures, 2011, 49, 314-317. | 3.1 | 4 |
| 90 | Phase transition in ferroelectric BaTiO<sub>3</sub>/SrTiO<sub>3</sub>superlattice: Raman spectroscopy studies. Ferroelectrics, 2016, 501, 61-69. | 0.6 | 4 |

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| 91 | Lattice dynamics and structural distortions in the multiferroic (Ba,Sr)TiO3/(Bi,Nd)FeO3 heterostructures. Thin Solid Films, 2017, 636, 220-224. | 1.8 | 4 |
| 92 | Symmetry of the mixed state of superconductors with anisotropic pairing. Physica C: Superconductivity and Its Applications, 1993, 206, 373-386. | 1.2 | 3 |
| 93 | Comment on â€˜â€˜Ginzburg-Landau theory of the phase diagram of superconductingUPt3â€™â€™. Physical Review Letters, 1993, 71, 1957-1957. | 7.8 | 3 |
| 94 | Comment on `Inhomogeneities and birefringence in quartz'. Journal of Physics Condensed Matter, 1999, 11, 8169-8173. | 1.8 | 3 |
| 95 | Domain Proximity and Ferroelectric Transition in Ferro-Paraelectric Superlattices. Ferroelectrics, 2003, 291, 169-175. | 0.6 | 3 |
| 96 | Phase Transition Properof Ferroelectric Superlattice with three Alternative Layers from Ising Model in a Transverse Field. Physica Scripta, 2005, 72, 265-273. | 2.5 | 3 |
| 97 | Unexpectedly high Curie temperature in weakly strained ferroelectric film. Physica Status Solidi (B): Basic Research, 2017, 254, 1600413. | 1.5 | 3 |
| 98 | Structural, Dielectric, and Magnetic Properties of Multiferroic ($1 - x$ ) La0.5Ca0.5MnO3-($x$ ) BaTi0.8Sn0.2O3 Laminated Composites. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1935-1941. | 3.0 | 3 |
| 99 | Ferroelectric multiple-valued logic units. Ferroelectrics, 2019, 543, 213-221. | 0.6 | 3 |
| 100 | Dynamics of polarization vortices revealed in a ferroelectric material. Nature, 2021, 592, 359-360. | 27.8 | 3 |
| 101 | Anomalous Light Scattering in Quartz: Ferroelastic-ELT Versus Non Equilibrium-EQT Model. Ferroelectrics, 2003, 290, 97-104. | 0.6 | 2 |
| 102 | Study of Ferroelectric Bi<sub>3.25</sub>La<sub>0.75</sub>Ti<sub>3</sub>O<sub>12</sub>Thin Films Deposited by Sol-Gel Method. Ferroelectrics, 2010, 397, 112-121. | 0.6 | 2 |
| 103 | Phase diagram of ferroelectric thin film with diluted surface. Superlattices and Microstructures, 2011, 49, 307-313. | 3.1 | 2 |
| 104 | Longitudinal and Transversal Polarization Switching in Strained Ferroelectrics. Ferroelectrics, 2014, 461, 22-28. | 0.6 | 2 |
| 105 | Gate-tunable electron interaction in high-Î° dielectric films. Scientific Reports, 2017, 7, 42770. | 3.3 | 2 |
| 106 | Nondestructive method of thin-film dielectric constant measurements by two-wire capacitor. Physica Status Solidi (B): Basic Research, 2017, 254, 1600476. | 1.5 | 2 |
| 107 | Built-in electric field induces polarization rotation in bilayer BiFeO3/(Ba,Sr)TiO3 thin films. Journal of Alloys and Compounds, 2020, 812, 152164. | 5.5 | 2 |
| 108 | Superconducting mixed state symmetry for an anisotropic pairing near Hc2 and phase transitions in UPt3. Physica C: Superconductivity and Its Applications, 1991, 185-189, 2629-2630. | 1.2 | 1 |

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| 109 | Intercalation in C60: High resolution 13C NMR results. Synthetic Metals, 1995, 70, 1431-1434. | 3.9 | 1 |
| 110 | Polarization Rotation in the Incommensurate Phase of Sn2P2(SexS1â€“x)6. Ferroelectrics, 2004, 302, 137-141. | 0.6 | 1 |
| 111 | Catalytic Studies of RuO2 Films Deposited on Ferroelectrics Films by Spin Coating Process. Ferroelectrics, 2008, 371, 34-42. | 0.6 | 1 |
| 112 | Investigation of diffuse phase transition in ferroelectric Pb2â^'x K1+x Li x Nb5O15 (0Ââ‰ÂxÂâ‰Â1.5) ceramics. Applied Physics A: Materials Science and Processing, 2016, 122, 1. | 2.3 | 1 |
| 113 | The Anisotropy Induced by a Magnetostriction in Exchange-Biased Two-Layer Films. Metallofizika I Noveishie Tekhnologii, 2016, 36, 1453-1464. | 0.5 | 1 |
| 114 | ASSESSING VEGETATION STRUCTURAL CHANGES IN OASIS AGRO-ECOSYSTEMS USING SENTINEL-2 IMAGE TIME SERIES: CASE STUDY FOR DRÃ‚A-TAFILALET REGION MOROCCO. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-4/W12, 69-73. | 0.2 | 1 |
| 115 | Symmetry of electronic states in antiferromagnets; applications to CuO2 planes. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1583-1584. | 1.2 | 0 |
| 116 | Phase transitions in the mixed state of superconductors with anisotropic pairing. Physica B: Condensed Matter, 1994, 194-196, 1971-1972. | 2.7 | 0 |
| 117 | High-resolution NMR in alkali intercalated C60. Physica C: Superconductivity and Its Applications, 1994, 235-240, 767-768. | 1.2 | 0 |
| 118 | Model of isotropic d-wave pairing in UPt3. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2447-2448. | 1.2 | 0 |
| 119 | Nearly isotropic d-wave pairing in UPt3. Physica B: Condensed Matter, 1995, 206-207, 577-579. | 2.7 | 0 |
| 120 | TGB C phase in liquid crystalsâ€”the analog of vortex state in space modulated superconductors. European Physical Journal D, 1996, 46, 1835-1836. | 0.4 | 0 |
| 121 | Structural and Dynamical Aspects of Structural Phase Transitions on Incommensurate A2BX4compounds. Ferroelectrics, 2004, 305, 75-78. | 0.6 | 0 |
| 122 | Dielectric nonlinearity and polarization anharmonicity of BaTiO<inf>3</inf>. Applications of Ferroelectrics, IEEE International Symposium on, 2006, , . | 0.0 | 0 |
| 123 | Charge ordering in amorphous WOx films. Physica B: Condensed Matter, 2008, 403, 1211-1212. | 2.7 | 0 |
| 124 | Temperature Evolution of 180Â° Ferroelectric Domains in Thin Ferroelectric Films. Ferroelectrics, 2008, 372, 41-46. | 0.6 | 0 |
| 125 | New algorithm for Multi-Valued Decision Diagram construction. , 2019, , . | | 0 |
| 126 | Application of Generalised Reed-Muller Expansion in Development of Programmable Logic Array. , 2019, , . | | 0 |

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| 127 | 180Â° Ferroelectric Domains in Thin Films and Superlattices. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 221-236. | 0.3 | 0 |
| 128 | Satellite Desertification Monitoring in Sahara. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 241-244. | 0.2 | 0 |