# Dmitri A Tenne

List of Publications by Year
in descending order



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|---|---|---|---|
| 94 papers | 3,423 citations | 136740 32 h-index | 143772 57 g-index |
| 95 all docs | 95 docs citations | 95 times ranked | 5098 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Effect of proton irradiation on anatase TiO2 nanotube anodes for lithium-ion batteries. Journal of Materials Science, 2019, 54, 13221-13235. | 1.7 | 19 |
| 2 | Defect Engineering of ZnO Nanoparticles for Bioimaging Applications. ACS Applied Materials & Interfaces, 2019, 11, 24933-24944. | 4.0 | 62 |
| 3 | Nanotube structures: material characterization and structural analysis of Geâ€“Se thin films. Journal of Materials Science: Materials in Electronics, 2019, 30, 2470-2478. | 1.1 | 2 |
| 4 | Effects of intermediate energy heavyâ€ion irradiation on the microstructure of rutile TiO<sub>2</sub> single crystal. Journal of the American Ceramic Society, 2018, 101, 4357-4366. | 1.9 | 12 |
| 5 | Proton Beam Effects on Geâ€“Se/Ag Thin Films. Physica Status Solidi (B): Basic Research, 2018, 255, 1700453. | 0.7 | 4 |
| 6 | Isostructural metal-insulator transition in VO <sub>2</sub>. Science, 2018, 362, 1037-1040. | 6.0 | 158 |
| 7 | Tip-enhanced stimulated Raman scattering with ultra-high-aspect-ratio tips and confocal polarization Raman spectroscopy for evaluation of sidewalls in Type II superlattices FPAs. , 2018, , . | | 0 |
| 8 | Constructing oxide interfaces and heterostructures by atomic layer-by-layer laser molecular beam epitaxy. Npj Quantum Materials, 2017, 2, . | 1.8 | 34 |
| 9 | Electron beam effects in Geâ€“Se thin films and resistance change memory devices. Emerging Materials Research, 2016, 5, 126-134. | 0.4 | 4 |
| 10 | Xâ€ray radiation induced effects in selected chalcogenide glasses and CBRAM devices based on them. Physica Status Solidi (B): Basic Research, 2016, 253, 1060-1068. | 0.7 | 5 |
| 11 | Tuning the Bandgap and Cytotoxicity of ZnO by Tailoring the Nanostructures. Particle and Particle Systems Characterization, 2015, 32, 596-603. | 1.2 | 2 |
| 12 | Magnetic Structure and Ordering of Multiferroic Hexagonal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>LuFeO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub><br>Physical Review Letters, 2015, 114, 217602. | 2.9 | 92 |
| 13 | Confocal Raman spectroscopy and AFM for evaluation of sidewalls in type II superlattice FPAs. , 2015, , . | | 1 |
| 14 | Epitaxial CrN Thin Films with High Thermoelectric Figure of Merit. Advanced Materials, 2015, 27, 3032-3037. | 11.1 | 59 |
| 15 | Dynamic variations of the light-induced effects in a-Ge_xSe_100-x films: experiment and simulation. Optical Materials Express, 2015, 5, 295. | 1.6 | 12 |
| 16 | Novel magnetic and optical properties of Sn1â^'xZnxO2 nanoparticles. Journal of Applied Physics, 2015, 117, . | 1.1 | 8 |
| 17 | Emergence of room-temperature ferroelectricity at reduced dimensions. Science, 2015, 349, 1314-1317. | 6.0 | 259 |
| 18 | Structural and Material Changes in Thin Film Chalcogenide Glasses Under Ar-Ion Irradiation. IEEE Transactions on Nuclear Science, 2014, 61, 2855-2861. | 1.2 | 4 |

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|---|---|---|---|
| 19 | Defect induced ferromagnetism in undoped ZnO nanoparticles. Journal of Applied Physics, 2014, 115, . | 1.1 | 43 |
| 20 | Ion beam effect on Ge-Se chalcogenide glass films: Non-volatile memory array formation, structural changes and device performance. , 2014, , . | | 2 |
| 21 | Correlation between magnetism and electronic structure of Zn1â^'xCoxO nanoparticles. Journal of Applied Physics, 2013, 113, . | 1.1 | 8 |
| 22 | Phase Transitions, Phase Coexistence, and Piezoelectric Switching Behavior in Highly Strained BiFeO<sub>3</sub> Films. Advanced Materials, 2013, 25, 5561-5567. | 11.1 | 84 |
| 23 | Phase Transitions, Phase Coexistence, and Piezoelectric Switching Behavior in Highly Strained BiFeO3Films (Adv. Mater. 39/2013). Advanced Materials, 2013, 25, 5560-5560. | 11.1 | 0 |
| 24 | Adsorption-controlled growth of BiVO4 by molecular-beam epitaxy. APL Materials, 2013, 1, . | 2.2 | 65 |
| 25 | Gamma ray induced structural effects in bare and Ag doped Geâ€“S thin films for sensor application. Journal of Non-Crystalline Solids, 2013, 377, 195-199. | 1.5 | 10 |
| 26 | Fluctuant magnetism in metal oxide nanocrystals capped with surfactants. Physical Review B, 2013, 88, . | 1.1 | 10 |
| 27 | Study of the sorption properties of Ge20Se80 thin films for NO2 gas sensing. Thin Solid Films, 2012, 525, 141-147. | 0.8 | 9 |
| 28 | NO2 gas sorption studies of Ge33Se67 films using quartz crystal microbalance. Materials Chemistry and Physics, 2012, 137, 552-557. | 2.0 | 7 |
| 29 | Improving the selective cancer killing ability of ZnO nanoparticles using Fe doping. Nanotoxicology, 2012, 6, 440-452. | 1.6 | 39 |
| 30 | Tuning the Properties of ZnO, Hematite, and Ag Nanoparticles by Adjusting the Surface Charge. Advanced Materials, 2012, 24, 1232-1237. | 11.1 | 18 |
| 31 | Ultraviolet Raman Spectroscopy of Nanoscale Ferroelectric Thin Films and Superlattices. , 2012, , 587-624. | | 2 |
| 32 | Magnetism of ZnO nanoparticles: Dependence on crystallite size and surfactant coating. Journal of Applied Physics, 2011, 109, . | 1.1 | 21 |
| 33 | Structural study of Ag-Ge-S solid electrolyte glass system for resistive radiation sensing. , 2011, , . | | 4 |
| 34 | Temperature-dependent Raman scattering of multiferroic Pb(Fe<sub>1/2</sub>Nb<sub>1/2</sub>)O<sub>3</sub>. Journal of Physics Condensed Matter, 2011, 23, 015401. | 0.7 | 30 |
| 35 | Growth And Magnetic Properties Of La[sub 2]NiMnO[sub 6] Epitaxial Thin Films. , 2011, , . | | 2 |
| 36 | Enhanced Dye Fluorescence in Novel Dyeâ€“ZnO Nanocomposites. Advanced Functional Materials, 2010, 20, 4358-4363. | 7.8 | 29 |

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|---|---|---|---|
| 37 | Structural details of Geâ€rich and silverâ€doped chalcogenide glasses for nanoionic nonvolatile memory. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 621-626. | 0.8 | 30 |
| 38 | Transition metal dopants essential for producing ferromagnetism in metal oxide nanoparticles. Physical Review B, 2010, 82, . | 1.1 | 14 |
| 39 | Multiferroic Pb(Fe[sub 1â^•2]Nb[sub 1â^•2])O[sub 3] Single Crystals: A Raman scattering study. , 2010, , . | | 0 |
| 40 | Correlation between saturation magnetization, bandgap, and lattice volume of transition metal (M=Cr, Mn, Fe, Co, or Ni) doped Zn1â^'xMxO nanoparticles. Journal of Applied Physics, 2010, 107, . | 1.1 | 85 |
| 41 | Ferroelectricity in Strain-Free<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Thin Films. Physical Review Letters, 2010, 104, 197601. | 2.9 | 233 |
| 42 | Ferroelectricity in nonstoichiometric SrTiO3 films studied by ultraviolet Raman spectroscopy. Applied Physics Letters, 2010, 97, . | 1.5 | 57 |
| 43 | Ferroelectric phase transitions in three-component short-period superlattices studied by ultraviolet Raman spectroscopy. Journal of Applied Physics, 2009, 105, 054106. | 1.1 | 6 |
| 44 | Ferroelectricity in Ultrathin<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Films: Probing the Size Effect by Ultraviolet Raman Spectroscopy. Physical Review Letters, 2009, 103, 177601. | 2.9 | 121 |
| 45 | Fluorescent dye encapsulated ZnO particles with cell-specific toxicity for potential use in biomedical applications. Journal of Materials Science: Materials in Medicine, 2009, 20, 11-22. | 1.7 | 121 |
| 46 | Oxygenâ€assisted photoinduced structural transformation in amorphous Geâ€“S films. Physica Status Solidi (B): Basic Research, 2009, 246, 1813-1819. | 0.7 | 14 |
| 47 | Structural development in Ge-rich Geâ€“S glasses. Journal of Non-Crystalline Solids, 2009, 355, 1792-1796. | 1.5 | 35 |
| 48 | Raman Spectroscopy of Ferroelectric Thin Films and Superlattices. Journal of the American Ceramic Society, 2008, 91, 1820-1834. | 1.9 | 52 |
| 49 | Growth of nanoscale BaTiO<sub>3</sub>/SrTiO<sub>3</sub> superlattices by molecular-beam epitaxy. Journal of Materials Research, 2008, 23, 1417-1432. | 1.2 | 49 |
| 50 | Interfacial coherency and ferroelectricity of BaTiO3â^•SrTiO3 superlattice films. Applied Physics Letters, 2007, 91, 252904. | 1.5 | 49 |
| 51 | Acoustic properties of nanoscale oxide heterostructures probed by UV Raman spectroscopy. Journal of Physics: Conference Series, 2007, 92, 012160. | 0.3 | 2 |
| 52 | Prediction of ferroelectricity in BaTiO3â^•SrTiO3 superlattices with domains. Applied Physics Letters, 2007, 91, . | 1.5 | 74 |
| 53 | Acoustic Bragg mirrors and cavities made using piezoelectric oxides. Applied Physics Letters, 2007, 90, 042909. | 1.5 | 33 |
| 54 | Raman study of oxygen reduced and re-oxidized strontium titanate. Physical Review B, 2007, 76, . | 1.1 | 82 |

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| 55 | Probing Nanoscale Ferroelectricity by Ultraviolet Raman Spectroscopy. Science, 2006, 313, 1614-1616. | 6.0 | 295 |
| 56 | Interface phonons in semiconductor nanostructures with quantum dots. Journal of Experimental and Theoretical Physics, 2005, 101, 554-561. | 0.2 | 13 |
| 57 | Mechanism of Recombination in InAs Quantum Dots in Indirect Bandgap AlGaAs Matrices. AIP Conference Proceedings, 2005, , . | 0.3 | 0 |
| 58 | Interface phonons of quantum dots in InAs/(Al,Ga)As heteroepitaxial system: a Raman study. AIP Conference Proceedings, 2005, , . | 0.3 | 0 |
| 59 | Structural and transport properties of epitaxial NaxCoO2 thin films. Applied Physics Letters, 2005, 87, 172104. | 1.5 | 20 |
| 60 | Raman scattering in pure and carbon-dopedMgB2films. Physical Review B, 2005, 71, . | 1.1 | 17 |
| 61 | Raman study of interface phonons in InAs quantum dot structures. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2629-2633. | 0.8 | 2 |
| 62 | Millisecond fluorescence in InAs quantum dots embedded in AlAs. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 20, 282-285. | 1.3 | 19 |
| 63 | Enhancement of the Superconducting Transition Temperature ofMgB2by a Strain-Induced Bond-Stretching Mode Softening. Physical Review Letters, 2004, 93, 147006. | 2.9 | 139 |
| 64 | Effect of thermal strain on the ferroelectric phase transition in polycrystalline Ba0.5Sr0.5TiO3 thin films studied by Raman spectroscopy. Applied Physics Letters, 2004, 85, 4124-4126. | 1.5 | 36 |
| 65 | Absence of low-temperature phase transitions in epitaxialBaTiO3thin films. Physical Review B, 2004, 69, . | 1.1 | 84 |
| 66 | Lattice dynamics in BaxSr1â^'xTiO3 thin films studied by Raman spectroscopy. Journal of Applied Physics, 2004, 96, 6597-6605. | 1.1 | 36 |
| 67 | Lattice dynamics inBaxSr1â^'xTiO3single crystals: A Raman study. Physical Review B, 2004, 70, . | 1.1 | 84 |
| 68 | Interface phonons in InAs and AlAs quantum dot structures. Physical Review B, 2004, 70, . | 1.1 | 32 |
| 69 | Millisecond photoluminescence kinetics in a system of direct-bandgap InAs quantum dots in an AlAs matrix. JETP Letters, 2003, 77, 389-392. | 0.4 | 26 |
| 70 | Raman study ofBaxSr1â^'xTiO3films:â€,â€,Evidence for the existence of polar nanoregions. Physical Review B, 2003, 67, . | 1.1 | 70 |
| 71 | Formation of InAs quantum dots in an aluminium oxide matrix by lateral selective wet oxidation. , 2003, , . | | 0 |
| 72 | Resonant Raman Scattering by Strained and Relaxed Ge Quantum Dots. Materials Research Society Symposia Proceedings, 2002, 737, 138. | 0.1 | 5 |

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| 73 | Raman spectroscopy of self-assembled InAs quantum dots in wide-bandgap matrices of AlAs and aluminium oxide. Materials Research Society Symposia Proceedings, 2002, 737, 144. | 0.1 | 0 |
| 74 | Detection of nanophase at the surface of HFCVD grown diamond films using surface enhanced Raman spectroscopic technique. Diamond and Related Materials, 2002, 11, 1858-1862. | 1.8 | 19 |
| 75 | Raman study of self-assembled InAs quantum dots embedded in AlAs: influence of growth temperature. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 199-202. | 1.3 | 39 |
| 76 | Feed gas dependence of the surface nanophase on HFCVD grown diamond films studied by surface enhanced Raman spectroscopy. Applied Surface Science, 2002, 191, 334-337. | 3.1 | 12 |
| 77 | The formation of inas quantum dotsin an aluminum oxide matrix. Technical Physics Letters, 2002, 28, 554-556. | 0.2 | 3 |
| 78 | Raman spectroscopy of the PTCDAâ€"inorganic semiconductor interface: evidence for charge transfer. Applied Surface Science, 2002, 190, 386-389. | 3.1 | 9 |
| 79 | Soft phonon modes in Ba0.5Sr0.5TiO3 thin films studied by Raman spectroscopy. Applied Physics Letters, 2001, 79, 3836-3838. | 1.5 | 30 |
| 80 | Optical Spectroscopy during Growth of PTCDA-C60Complex Thin Films. Journal of Physical Chemistry B, 2001, 105, 12076-12081. | 1.2 | 0 |
| 81 | Raman Studies of the Soft Phonon Modes in BaxSr1â^'x.TiO3 thin Films. Materials Research Society Symposia Proceedings, 2001, 688, 1. | 0.1 | 1 |
| 82 | In-situ monitoring of the growth of copper phthalocyanine films on InSb by organic molecular beam deposition. Applied Surface Science, 2001, 175-176, 374-378. | 3.1 | 21 |
| 83 | Growth of organic films on passivated semiconductor surfaces: gallium arsenide versus silicon. Applied Surface Science, 2001, 175-176, 326-331. | 3.1 | 25 |
| 84 | Raman spectroscopy: a powerful tool for characterisation of Ag/3,4,9,10-perylene-tetracarboxylic-dianhydride/GaAs heterostructures. Applied Surface Science, 2001, 179, 113-117. | 3.1 | 15 |
| 85 | Self-Assembled Islands in the (Ga,Al)As/InAs Heteroepitaxial System Studied by Raman Spectroscopy. Physica Status Solidi (B): Basic Research, 2001, 224, 25-29. | 0.7 | 7 |
| 86 | Influence of deposition temperature on the structure of 3,4,9,10-perylene tetracarboxylic dianhydride thin films on H-passivated silicon probed by Raman spectroscopy. Organic Electronics, 2000, 1, 49-56. | 1.4 | 32 |
| 87 | Optical characterisation of PTCDA films grown on passivated semiconductor substrates. Applied Surface Science, 2000, 166, 387-391. | 3.1 | 22 |
| 88 | Single crystals of the organic semiconductor perylene tetracarboxylic dianhydride studied by Raman spectroscopy. Physical Review B, 2000, 61, 14564-14569. | 1.1 | 57 |
| 89 | Raman study of self-assembled GaAs and AlAs islands embedded in InAs. Physical Review B, 2000, 61, 13785-13790. | 1.1 | 27 |
| 90 | Lasing characteristics of lasers with a vertical cavity based on In0.2Ga0.8As quantum wells. Technical Physics Letters, 1999, 25, 775-777. | 0.2 | 2 |

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|---|---|---|---|
| 91 | Optical phonons in nanosize GaAs and AlAs clusters in an InAs matrix. JETP Letters, 1999, 70, 469-475. | 0.4 | 0 |
| 92 | Forward Raman scattering in GaAs/AlAs superlattices: Study of optical phonon anisotropy. European Physical Journal B, 1999, 8, 371-376. | 0.6 | 1 |
| 93 | Anisotropy of optical phonons in semiconductor superlattices: Raman scattering experiments. JETP Letters, 1998, 68, 53-58. | 0.4 | 2 |
| 94 | Resonant Raman scattering in GaAs/AlAs superlattices under electric fields. Physical Review B, 1992, 46, 6990-7001. | 1.1 | 44 |