

# Dmitri A Tenne

## List of Publications by Year in descending order

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94  
papers

3,423  
citations

136950

32  
h-index

144013

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g-index

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95  
docs citations

95  
times ranked

5098  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of proton irradiation on anatase TiO <sub>2</sub> nanotube anodes for lithium-ion batteries. Journal of Materials Science, 2019, 54, 13221-13235.	3.7	19
2	Defect Engineering of ZnO Nanoparticles for Bioimaging Applications. ACS Applied Materials & Interfaces, 2019, 11, 24933-24944.	8.0	62
3	Nanotube structures: material characterization and structural analysis of GeSe thin films. Journal of Materials Science: Materials in Electronics, 2019, 30, 2470-2478.	2.2	2
4	Effects of intermediate energy heavy-ion irradiation on the microstructure of rutile TiO <sub>2</sub> single crystal. Journal of the American Ceramic Society, 2018, 101, 4357-4366.	3.8	12
5	Proton Beam Effects on GeSe/Ag Thin Films. Physica Status Solidi (B): Basic Research, 2018, 255, 1700453.	1.5	4
6	Isostructural metal-insulator transition in VO <sub>2</sub> . Science, 2018, 362, 1037-1040.	12.6	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, .	5.2	34
9	Electron beam effects in GeSe thin films and resistance change memory devices. Emerging Materials Research, 2016, 5, 126-134.	0.7	4
10	X-ray radiation induced effects in selected chalcogenide glasses and CBRAM devices based on them. Physica Status Solidi (B): Basic Research, 2016, 253, 1060-1068.	1.5	5
11	Tuning the Bandgap and Cytotoxicity of ZnO by Tailoring the Nanostructures. Particle and Particle Systems Characterization, 2015, 32, 596-603.	2.3	2
12	Magnetic Structure and Ordering of Multiferroic Hexagonal LuFeO <sub>3</sub> . Physical Review Letters, 2015, 114, 217602.	7.8	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.	21.0	59
15	Dynamic variations of the light-induced effects in a-Ge <sub>x</sub> Se <sub>100-x</sub> films: experiment and simulation. Optical Materials Express, 2015, 5, 295.	3.0	12
16	Novel magnetic and optical properties of Sn <sup>1-x</sup> Zn <sub>x</sub> O <sub>2</sub> nanoparticles. Journal of Applied Physics, 2015, 117, .	2.5	8
17	Emergence of room-temperature ferroelectricity at reduced dimensions. Science, 2015, 349, 1314-1317.	12.6	259
18	Structural and Material Changes in Thin Film Chalcogenide Glasses Under Ar-Ion Irradiation. IEEE Transactions on Nuclear Science, 2014, 61, 2855-2861.	2.0	4

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19	Defect induced ferromagnetism in undoped ZnO nanoparticles. Journal of Applied Physics, 2014, 115, .	2.5	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 Zn <sub>1-x</sub> CoxO nanoparticles. Journal of Applied Physics, 2013, 113, .	2.5	8
22	Phase Transitions, Phase Coexistence, and Piezoelectric Switching Behavior in Highly Strained BiFeO <sub>3</sub> Films. Advanced Materials, 2013, 25, 5561-5567.	21.0	84
23	Phase Transitions, Phase Coexistence, and Piezoelectric Switching Behavior in Highly Strained BiFeO <sub>3</sub> Films (Adv. Mater. 39/2013). Advanced Materials, 2013, 25, 5560-5560.	21.0	0
24	Adsorption-controlled growth of BiVO <sub>4</sub> by molecular-beam epitaxy. APL Materials, 2013, 1, .	5.1	65
25	Gamma ray induced structural effects in bare and Ag doped Ge <sub>2</sub> S thin films for sensor application. Journal of Non-Crystalline Solids, 2013, 377, 195-199.	3.1	10
26	Fluctuant magnetism in metal oxide nanocrystals capped with surfactants. Physical Review B, 2013, 88, .	3.2	10
27	Study of the sorption properties of Ge <sub>20</sub> Se <sub>80</sub> thin films for NO <sub>2</sub> gas sensing. Thin Solid Films, 2012, 525, 141-147.	1.8	9
28	NO <sub>2</sub> gas sorption studies of Ge <sub>33</sub> Se <sub>67</sub> films using quartz crystal microbalance. Materials Chemistry and Physics, 2012, 137, 552-557.	4.0	7
29	Improving the selective cancer killing ability of ZnO nanoparticles using Fe doping. Nanotoxicology, 2012, 6, 440-452.	3.0	39
30	Tuning the Properties of ZnO, Hematite, and Ag Nanoparticles by Adjusting the Surface Charge. Advanced Materials, 2012, 24, 1232-1237.	21.0	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, .	2.5	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.	1.8	30
35	Growth And Magnetic Properties Of La <sub>2</sub> NiMnO <sub>6</sub> Epitaxial Thin Films. , 2011, , .		2
36	Enhanced Dye Fluorescence in Novel Dye <sup>+</sup> ZnO Nanocomposites. Advanced Functional Materials, 2010, 20, 4358-4363.	14.9	29

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37	Structural details of Ge-rich and silver-doped chalcogenide glasses for nanoionic nonvolatile memory. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 621-626.	1.8	30
38	Transition metal dopants essential for producing ferromagnetism in metal oxide nanoparticles. <i>Physical Review B</i> , 2010, 82, .	3.2	14
39	Multiferroic $\text{Pb}(\text{Fe}_{1-x}\text{Nb}_x)_2\text{O}_7$ 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 $\text{Zn}_{1-x}\text{MxO}$ nanoparticles. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	85
41	Ferroelectricity in Strain-Free $\text{SrTiO}_3$ Thin Films. <i>Physical Review Letters</i> , 2010, 104, 197601.	7.8	233
42	Ferroelectricity in nonstoichiometric $\text{SrTiO}_3$ films studied by ultraviolet Raman spectroscopy. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	57
43	Ferroelectric phase transitions in three-component short-period superlattices studied by ultraviolet Raman spectroscopy. <i>Journal of Applied Physics</i> , 2009, 105, 054106.	2.5	6
44	Ferroelectricity in Ultrathin $\text{BaTiO}_3$ Films: Probing the Size Effect by Ultraviolet Raman Spectroscopy. <i>Physical Review Letters</i> , 2009, 103, 177601.	7.8	121
45	Fluorescent dye encapsulated ZnO particles with cell-specific toxicity for potential use in biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 11-22.	3.6	121
46	Oxygen-assisted photoinduced structural transformation in amorphous Ge-S films. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 1813-1819.	1.5	14
47	Structural development in Ge-rich Ge-S glasses. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1792-1796.	3.1	35
48	Raman Spectroscopy of Ferroelectric Thin Films and Superlattices. <i>Journal of the American Ceramic Society</i> , 2008, 91, 1820-1834.	3.8	52
49	Growth of nanoscale $\text{BaTiO}_3/\text{SrTiO}_3$ superlattices by molecular-beam epitaxy. <i>Journal of Materials Research</i> , 2008, 23, 1417-1432.	2.6	49
50	Interfacial coherency and ferroelectricity of $\text{BaTiO}_3/\text{SrTiO}_3$ superlattice films. <i>Applied Physics Letters</i> , 2007, 91, 252904.	3.3	49
51	Acoustic properties of nanoscale oxide heterostructures probed by UV Raman spectroscopy. <i>Journal of Physics: Conference Series</i> , 2007, 92, 012160.	0.4	2
52	Prediction of ferroelectricity in $\text{BaTiO}_3/\text{SrTiO}_3$ superlattices with domains. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	74
53	Acoustic Bragg mirrors and cavities made using piezoelectric oxides. <i>Applied Physics Letters</i> , 2007, 90, 042909.	3.3	33
54	Raman study of oxygen reduced and re-oxidized strontium titanate. <i>Physical Review B</i> , 2007, 76, .	3.2	82

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55	Probing Nanoscale Ferroelectricity by Ultraviolet Raman Spectroscopy. <i>Science</i> , 2006, 313, 1614-1616.	12.6	295
56	Interface phonons in semiconductor nanostructures with quantum dots. <i>Journal of Experimental and Theoretical Physics</i> , 2005, 101, 554-561.	0.9	13
57	Mechanism of Recombination in InAs Quantum Dots in Indirect Bandgap AlGaAs Matrices. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
58	Interface phonons of quantum dots in InAs/(Al,Ga)As heteroepitaxial system: a Raman study. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
59	Structural and transport properties of epitaxial $\text{Na}_x\text{CoO}_2$ thin films. <i>Applied Physics Letters</i> , 2005, 87, 172104.	3.3	20
60	Raman scattering in pure and carbon-doped $\text{MgB}_2$ films. <i>Physical Review B</i> , 2005, 71, .	3.2	17
61	Raman study of interface phonons in InAs quantum dot structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 2629-2633.	0.8	2
62	Millisecond fluorescence in InAs quantum dots embedded in AlAs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 20, 282-285.	2.7	19
63	Enhancement of the Superconducting Transition Temperature of $\text{MgB}_2$ by a Strain-Induced Bond-Stretching Mode Softening. <i>Physical Review Letters</i> , 2004, 93, 147006.	7.8	139
64	Effect of thermal strain on the ferroelectric phase transition in polycrystalline $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ thin films studied by Raman spectroscopy. <i>Applied Physics Letters</i> , 2004, 85, 4124-4126.	3.3	36
65	Absence of low-temperature phase transitions in epitaxial $\text{BaTiO}_3$ thin films. <i>Physical Review B</i> , 2004, 69, .	3.2	84
66	Lattice dynamics in $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$ thin films studied by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2004, 96, 6597-6605.	2.5	36
67	Lattice dynamics in $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$ single crystals: A Raman study. <i>Physical Review B</i> , 2004, 70, .	3.2	84
68	Interface phonons in InAs and AlAs quantum dot structures. <i>Physical Review B</i> , 2004, 70, .	3.2	32
69	Millisecond photoluminescence kinetics in a system of direct-bandgap InAs quantum dots in an AlAs matrix. <i>JETP Letters</i> , 2003, 77, 389-392.	1.4	26
70	Raman study of $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$ films: Evidence for the existence of polar nanoregions. <i>Physical Review B</i> , 2003, 67, .	3.2	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. <i>Materials Research Society Symposia Proceedings</i> , 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.	3.9	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.	2.7	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.	6.1	12
77	The formation of InAs quantum dots in an aluminum oxide matrix. Technical Physics Letters, 2002, 28, 554-556.	0.7	3
78	Raman spectroscopy of the PTCDA/inorganic semiconductor interface: evidence for charge transfer. Applied Surface Science, 2002, 190, 386-389.	6.1	9
79	Soft phonon modes in Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> thin films studied by Raman spectroscopy. Applied Physics Letters, 2001, 79, 3836-3838.	3.3	30
80	Optical Spectroscopy during Growth of PTCDA-C60 Complex Thin Films. Journal of Physical Chemistry B, 2001, 105, 12076-12081.	2.6	0
81	Raman Studies of the Soft Phonon Modes in Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> 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.	6.1	21
83	Growth of organic films on passivated semiconductor surfaces: gallium arsenide versus silicon. Applied Surface Science, 2001, 175-176, 326-331.	6.1	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.	6.1	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.	1.5	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.	2.6	32
87	Optical characterisation of PTCDA films grown on passivated semiconductor substrates. Applied Surface Science, 2000, 166, 387-391.	6.1	22
88	Single crystals of the organic semiconductor perylene tetracarboxylic dianhydride studied by Raman spectroscopy. Physical Review B, 2000, 61, 14564-14569.	3.2	57
89	Raman study of self-assembled GaAs and AlAs islands embedded in InAs. Physical Review B, 2000, 61, 13785-13790.	3.2	27
90	Lasing characteristics of lasers with a vertical cavity based on In <sub>0.2</sub> Ga <sub>0.8</sub> As quantum wells. Technical Physics Letters, 1999, 25, 775-777.	0.7	2

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91	Optical phonons in nanosize GaAs and AlAs clusters in an InAs matrix. JETP Letters, 1999, 70, 469-475.	1.4	0
92	Forward Raman scattering in GaAs/AlAs superlattices: Study of optical phonon anisotropy. European Physical Journal B, 1999, 8, 371-376.	1.5	1
93	Anisotropy of optical phonons in semiconductor superlattices: Raman scattering experiments. JETP Letters, 1998, 68, 53-58.	1.4	2
94	Resonant Raman scattering in GaAs/AlAs superlattices under electric fields. Physical Review B, 1992, 46, 6990-7001.	3.2	44