

Dmitri A Tenne

List of Publications by Year in descending order

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papers

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136740

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95
all docs

95
docs citations

95
times ranked

5098
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing Nanoscale Ferroelectricity by Ultraviolet Raman Spectroscopy. Science, 2006, 313, 1614-1616.	6.0	295
2	Emergence of room-temperature ferroelectricity at reduced dimensions. Science, 2015, 349, 1314-1317.	6.0	259
3	Ferroelectricity in Strain-Free SrTiO_3 Thin Films. Physical Review Letters, 2010, 104, 197601.	2.9	233
4	Isostructural metal-insulator transition in VO_2 . Science, 2018, 362, 1037-1040.	6.0	158
5	Enhancement of the Superconducting Transition Temperature of MgB_2 by a Strain-Induced Bond-Stretching Mode Softening. Physical Review Letters, 2004, 93, 147006.	2.9	139
6	Ferroelectricity in Ultrathin BaTiO_3 Films: Probing the Size Effect by Ultraviolet Raman Spectroscopy. Physical Review Letters, 2009, 103, 177601.	2.9	121
7	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
8	Magnetic Structure and Ordering of Multiferroic Hexagonal LuFeO_3 . Physical Review Letters, 2015, 114, 217602.	2.9	92
9	Correlation between saturation magnetization, bandgap, and lattice volume of transition metal (M=Cr, Mn, Fe, Co, or Ni) doped $\text{Zn}^{1-x}\text{M}_x\text{O}$ nanoparticles. Journal of Applied Physics, 2010, 107, .	1.1	85
10	Absence of low-temperature phase transitions in epitaxial BaTiO_3 thin films. Physical Review B, 2004, 69, .	1.1	84
11	Lattice dynamics in $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$ single crystals: A Raman study. Physical Review B, 2004, 70, .	1.1	84
12	Phase Transitions, Phase Coexistence, and Piezoelectric Switching Behavior in Highly Strained BiFeO_3 Films. Advanced Materials, 2013, 25, 5561-5567.	11.1	84
13	Raman study of oxygen reduced and re-oxidized strontium titanate. Physical Review B, 2007, 76, .	1.1	82
14	Prediction of ferroelectricity in BaTiO_3 - SrTiO_3 superlattices with domains. Applied Physics Letters, 2007, 91, .	1.5	74
15	Raman study of $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$ films: Evidence for the existence of polar nanoregions. Physical Review B, 2003, 67, .	1.1	70
16	Adsorption-controlled growth of BiVO_4 by molecular-beam epitaxy. APL Materials, 2013, 1, .	2.2	65
17	Defect Engineering of ZnO Nanoparticles for Bioimaging Applications. ACS Applied Materials & Interfaces, 2019, 11, 24933-24944.	4.0	62
18	Epitaxial CrN Thin Films with High Thermoelectric Figure of Merit. Advanced Materials, 2015, 27, 3032-3037.	11.1	59

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19	Single crystals of the organic semiconductor perylene tetracarboxylic dianhydride studied by Raman spectroscopy. <i>Physical Review B</i> , 2000, 61, 14564-14569.	1.1	57
20	Ferroelectricity in nonstoichiometric SrTiO ₃ films studied by ultraviolet Raman spectroscopy. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	57
21	Raman Spectroscopy of Ferroelectric Thin Films and Superlattices. <i>Journal of the American Ceramic Society</i> , 2008, 91, 1820-1834.	1.9	52
22	Interfacial coherency and ferroelectricity of BaTiO ₃ /SrTiO ₃ superlattice films. <i>Applied Physics Letters</i> , 2007, 91, 252904.	1.5	49
23	Growth of nanoscale BaTiO ₃ /SrTiO ₃ superlattices by molecular-beam epitaxy. <i>Journal of Materials Research</i> , 2008, 23, 1417-1432.	1.2	49
24	Resonant Raman scattering in GaAs/AlAs superlattices under electric fields. <i>Physical Review B</i> , 1992, 46, 6990-7001.	1.1	44
25	Defect induced ferromagnetism in undoped ZnO nanoparticles. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	43
26	Raman study of self-assembled InAs quantum dots embedded in AlAs: influence of growth temperature. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 199-202.	1.3	39
27	Improving the selective cancer killing ability of ZnO nanoparticles using Fe doping. <i>Nanotoxicology</i> , 2012, 6, 440-452.	1.6	39
28	Effect of thermal strain on the ferroelectric phase transition in polycrystalline Ba _{0.5} Sr _{0.5} TiO ₃ thin films studied by Raman spectroscopy. <i>Applied Physics Letters</i> , 2004, 85, 4124-4126.	1.5	36
29	Lattice dynamics in Ba _x Sr _{1-x} TiO ₃ thin films studied by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2004, 96, 6597-6605.	1.1	36
30	Structural development in Ge-rich GeS glasses. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1792-1796.	1.5	35
31	Constructing oxide interfaces and heterostructures by atomic layer-by-layer laser molecular beam epitaxy. <i>Npj Quantum Materials</i> , 2017, 2, .	1.8	34
32	Acoustic Bragg mirrors and cavities made using piezoelectric oxides. <i>Applied Physics Letters</i> , 2007, 90, 042909.	1.5	33
33	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. <i>Organic Electronics</i> , 2000, 1, 49-56.	1.4	32
34	Interface phonons in InAs and AlAs quantum dot structures. <i>Physical Review B</i> , 2004, 70, .	1.1	32
35	Soft phonon modes in Ba _{0.5} Sr _{0.5} TiO ₃ thin films studied by Raman spectroscopy. <i>Applied Physics Letters</i> , 2001, 79, 3836-3838.	1.5	30
36	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.	0.8	30

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37	Temperature-dependent Raman scattering of multiferroic $\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3$. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 015401.	0.7	30
38	Enhanced Dye Fluorescence in Novel Dye-ZnO Nanocomposites. <i>Advanced Functional Materials</i> , 2010, 20, 4358-4363.	7.8	29
39	Raman study of self-assembled GaAs and AlAs islands embedded in InAs. <i>Physical Review B</i> , 2000, 61, 13785-13790.	1.1	27
40	Millisecond photoluminescence kinetics in a system of direct-bandgap InAs quantum dots in an AlAs matrix. <i>JETP Letters</i> , 2003, 77, 389-392.	0.4	26
41	Growth of organic films on passivated semiconductor surfaces: gallium arsenide versus silicon. <i>Applied Surface Science</i> , 2001, 175-176, 326-331.	3.1	25
42	Optical characterisation of PTCDA films grown on passivated semiconductor substrates. <i>Applied Surface Science</i> , 2000, 166, 387-391.	3.1	22
43	In-situ monitoring of the growth of copper phthalocyanine films on InSb by organic molecular beam deposition. <i>Applied Surface Science</i> , 2001, 175-176, 374-378.	3.1	21
44	Magnetism of ZnO nanoparticles: Dependence on crystallite size and surfactant coating. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	21
45	Structural and transport properties of epitaxial Na_xCoO_2 thin films. <i>Applied Physics Letters</i> , 2005, 87, 172104.	1.5	20
46	Detection of nanophase at the surface of HFCVD grown diamond films using surface enhanced Raman spectroscopic technique. <i>Diamond and Related Materials</i> , 2002, 11, 1858-1862.	1.8	19
47	Millisecond fluorescence in InAs quantum dots embedded in AlAs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 20, 282-285.	1.3	19
48	Effect of proton irradiation on anatase TiO_2 nanotube anodes for lithium-ion batteries. <i>Journal of Materials Science</i> , 2019, 54, 13221-13235.	1.7	19
49	Tuning the Properties of ZnO, Hematite, and Ag Nanoparticles by Adjusting the Surface Charge. <i>Advanced Materials</i> , 2012, 24, 1232-1237.	11.1	18
50	Raman scattering in pure and carbon-doped MgB_2 films. <i>Physical Review B</i> , 2005, 71, .	1.1	17
51	Raman spectroscopy: a powerful tool for characterisation of Ag/3,4,9,10-perylene-tetracarboxylic-dianhydride/GaAs heterostructures. <i>Applied Surface Science</i> , 2001, 179, 113-117.	3.1	15
52	Oxygen-assisted photoinduced structural transformation in amorphous Ge_xS films. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 1813-1819.	0.7	14
53	Transition metal dopants essential for producing ferromagnetism in metal oxide nanoparticles. <i>Physical Review B</i> , 2010, 82, .	1.1	14
54	Interface phonons in semiconductor nanostructures with quantum dots. <i>Journal of Experimental and Theoretical Physics</i> , 2005, 101, 554-561.	0.2	13

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55	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
56	Dynamic variations of the light-induced effects in a-Ge _x Se _{100-x} films: experiment and simulation. Optical Materials Express, 2015, 5, 295.	1.6	12
57	Effects of intermediate energy heavy-ion irradiation on the microstructure of rutile TiO ₂ single crystal. Journal of the American Ceramic Society, 2018, 101, 4357-4366.	1.9	12
58	Gamma ray induced structural effects in bare and Ag doped GeS thin films for sensor application. Journal of Non-Crystalline Solids, 2013, 377, 195-199.	1.5	10
59	Fluctuant magnetism in metal oxide nanocrystals capped with surfactants. Physical Review B, 2013, 88, .	1.1	10
60	Raman spectroscopy of the PTCDA/inorganic semiconductor interface: evidence for charge transfer. Applied Surface Science, 2002, 190, 386-389.	3.1	9
61	Study of the sorption properties of Ge ₂₀ Se ₈₀ thin films for NO ₂ gas sensing. Thin Solid Films, 2012, 525, 141-147.	0.8	9
62	Correlation between magnetism and electronic structure of Zn _{1-x} CoxO nanoparticles. Journal of Applied Physics, 2013, 113, .	1.1	8
63	Novel magnetic and optical properties of Sn _{1-x} ZnxO ₂ nanoparticles. Journal of Applied Physics, 2015, 117, .	1.1	8
64	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
65	NO ₂ gas sorption studies of Ge ₃₃ Se ₆₇ films using quartz crystal microbalance. Materials Chemistry and Physics, 2012, 137, 552-557.	2.0	7
66	Ferroelectric phase transitions in three-component short-period superlattices studied by ultraviolet Raman spectroscopy. Journal of Applied Physics, 2009, 105, 054106.	1.1	6
67	Resonant Raman Scattering by Strained and Relaxed Ge Quantum Dots. Materials Research Society Symposia Proceedings, 2002, 737, 138.	0.1	5
68	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.	0.7	5
69	Structural study of Ag-Ge-S solid electrolyte glass system for resistive radiation sensing. , 2011, , .		4
70	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
71	Electron beam effects in GeS thin films and resistance change memory devices. Emerging Materials Research, 2016, 5, 126-134.	0.4	4
72	Proton Beam Effects on GeS/Ag Thin Films. Physica Status Solidi (B): Basic Research, 2018, 255, 1700453.	0.7	4

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73	The formation of InAs quantum dots in an aluminum oxide matrix. Technical Physics Letters, 2002, 28, 554-556.	0.2	3
74	Anisotropy of optical phonons in semiconductor superlattices: Raman scattering experiments. JETP Letters, 1998, 68, 53-58.	0.4	2
75	Lasing characteristics of lasers with a vertical cavity based on In _{0.2} Ga _{0.8} As quantum wells. Technical Physics Letters, 1999, 25, 775-777.	0.2	2
76	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
77	Acoustic properties of nanoscale oxide heterostructures probed by UV Raman spectroscopy. Journal of Physics: Conference Series, 2007, 92, 012160.	0.3	2
78	Growth And Magnetic Properties Of La ₂ NiMnO ₆ Epitaxial Thin Films. , 2011, , .		2
79	Ion beam effect on Ge-Se chalcogenide glass films: Non-volatile memory array formation, structural changes and device performance. , 2014, , .		2
80	Tuning the Bandgap and Cytotoxicity of ZnO by Tailoring the Nanostructures. Particle and Particle Systems Characterization, 2015, 32, 596-603.	1.2	2
81	Nanotube structures: material characterization and structural analysis of GeSe thin films. Journal of Materials Science: Materials in Electronics, 2019, 30, 2470-2478.	1.1	2
82	Ultraviolet Raman Spectroscopy of Nanoscale Ferroelectric Thin Films and Superlattices. , 2012, , 587-624.		2
83	Forward Raman scattering in GaAs/AlAs superlattices: Study of optical phonon anisotropy. European Physical Journal B, 1999, 8, 371-376.	0.6	1
84	Raman Studies of the Soft Phonon Modes in Ba _x Sr _{1-x} TiO ₃ thin Films. Materials Research Society Symposia Proceedings, 2001, 688, 1.	0.1	1
85	Confocal Raman spectroscopy and AFM for evaluation of sidewalls in type II superlattice FPAs. , 2015, , .		1
86	Optical phonons in nanosize GaAs and AlAs clusters in an InAs matrix. JETP Letters, 1999, 70, 469-475.	0.4	0
87	Optical Spectroscopy during Growth of PTCDA-C60 Complex Thin Films. Journal of Physical Chemistry B, 2001, 105, 12076-12081.	1.2	0
88	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
89	Formation of InAs quantum dots in an aluminium oxide matrix by lateral selective wet oxidation. , 2003, , .		0
90	Mechanism of Recombination in InAs Quantum Dots in Indirect Bandgap AlGaAs Matrices. AIP Conference Proceedings, 2005, , .	0.3	0

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91	Interface phonons of quantum dots in InAs/(Al,Ga)As heteroepitaxial system: a Raman study. AIP Conference Proceedings, 2005, , .	0.3	0
92	Multiferroic Pb(Fe[sub 1 [∧] 2]Nb[sub 1 [∧] 2])O[sub 3] Single Crystals: A Raman scattering study. , 2010, , .		0
93	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
94	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