Paulo Sergio Pizani

List of Publications by Year in Descending Order

226 papers	6,464 citations	44 h-index	67 g-index
232 ext. papers	6,853 ext. citations	3.2 avg, IF	5.2 L-index

#	Paper	IF	Citations
226	A critical evaluation of barium silicate glass network polymerization. *Journal of Non-Crystalline Solids*, **2022**, 583, 121477	3.9	1
225	Speciation and polymerization in a barium silicate glass: Evidence from 29Si NMR and Raman spectroscopies. *Chemical Geology*, **2021**, 586, 120611	4.2	3
224	Identifying and explaining vibrational modes of sanbornite (low-BaSiO) and BaSiO: A joint experimental and theoretical study. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 248, 119130	4.4	3
223	Electrochemical Synthesis of La-Doped BaTiO Nanopowders. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 1033-1038	1.3	
222	Unveiling the infrared complex dielectric function of ilmenite CdTiO3. *Journal of Alloys and Compounds*, **2020**, 813, 152136	5.7	5
221	Spin-phonon coupling in uniaxial anisotropic spin-glass based on Fe2TiO5 pseudobrookite. *Journal of Alloys and Compounds*, **2019**, 799, 563-572	5.7	11
220	The origin of the unusual DSC peaks of supercooled barium disilicate liquid. *CrystEngComm*, **2019**, 21, 2768-2778	3.3	18
219	Innovative Design for the Enhancement of Lithium Lanthanum Titanate Electrolytes. *Crystal Growth and Design*, **2019**, 19, 4897-4901	3.5	6
218	Effects of cadmium insertion in blue-excited photoluminescence of ZnO. *Optical Materials*, **2019**, 89, 344-348	3.3	5
217	Theoretical methods for calculations of optical phonons in BiOBr: Analysis and correction of propagated errors. *Journal of Raman Spectroscopy*, **2018**, 49, 1356-1363	2.3	16
216	First-principles calculations and Raman scattering evidence for local symmetry lowering in rhombohedral ilmenite: temperature- and pressure-dependent studies. *Journal of Physics Condensed Matter*, **2018**, 30, 485401	1.8	10
215	A Raman investigation of the structural evolution of supercooled liquid barium disilicate during crystallization. *International Journal of Applied Glass Science*, **2018**, 9, 510-517	1.8	15
214	Structure Property Relations in Fluorophosphate Glasses: An Integrated Spectroscopic Strategy. *Journal of Physical Chemistry C*, **2017**, 121, 2968-2986	3.8	28
213	Ionic conductivity and mixed-ion effect in mixed alkali metaphosphate glasses. *Physical Chemistry Chemical Physics*, **2017**, 19, 6594-6600	3.6	13
212	Temperature dependence of the Raman spectrum of 1-(4-chlorophenyl)-3-(2-thienyl)prop-2-en-1-one. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2017**, 180, 9-17	4.4	6
211	Raman signatures of monoclinic distortion in (Ba1Srx)3CaNb2O9 complex perovskites. *Journal of Raman Spectroscopy*, **2017**, 48, 1243-1249	2.3	8
210	Thermal and biological properties of the Schiff base N,N?-bis(salicylidene)-1,2-phenylenediamine, a potential adjuvant to antibiotic therapy. *Journal of Molecular Structure*, **2016**, 1115, 105-108	3.4	10

209	Relationship between ferroelectric properties and local structure of Pb1−xBaxZr0.40Ti0.60O3 ceramic materials studied by X-ray absorption and Raman spectroscopies. *Journal of Solid State Chemistry*, **2016**, 240, 16-22	3.3	1
208	Raman spectroscopy of l -phenylalanine nitric acid submitted to high pressure. *Vibrational Spectroscopy*, **2016**, 85, 97-103	2.1	8
207	Structural and dynamic properties of vitreous and crystalline barium disilicate: molecular dynamics simulation and Raman scattering experiments. *Journal Physics D: Applied Physics*, **2016**, 49, 435301	3	12
206	Characterization of Meldrum's acid derivative 5-(5-Ethyl-1,3,4-thiadiazol-2-ylamino)methylene-2,2-dimethyl-1,3-dioxane-4,6-dione by Raman and FT-IR spectroscopy and DFT calculations. *Journal of Molecular Structure*, **2015**, 1091, 37-42	3.4	17
205	Ultraprecision machining of diffraction optical elements on soft semiconductor crystal. *International Journal of Advanced Manufacturing Technology*, **2015**, 77, 1145-1154	3.2	6
204	Network Structure and Rare-Earth Ion Local Environments in Fluoride Phosphate Photonic Glasses Studied by Solid-State NMR and Electron Paramagnetic Resonance Spectroscopies. *Journal of Physical Chemistry C*, **2015**, 119, 24574-24587	3.8	37
203	Atomic substitution effects on the structural and vibrational properties of NixPb1-xTiO3: X-ray diffraction and Raman scattering investigations. *AIP Advances*, **2015**, 5, 077113	1.5	6
202	Spectroscopy studies on Schiff base N,N?-bis(salicylidene)-1,2-phenylenediamine by NMR, infrared, Raman and DFT calculations. *Journal of Molecular Structure*, **2015**, 1097, 106-111	3.4	20
201	Ferroelectric and structural instability of (Pb,Ca)TiO3 thin films prepared in an oxygen atmosphere and deposited on LSCO thin films which act as a buffer layer. *Ceramics International*, **2014**, 40, 4085-4093	5.1	6
200	The effect of high non-hydrostatic pressure on III-V semiconductors: zinc blende to wurtzite structural phase transition and multiphase generation. *Journal of Physics: Conference Series*, **2014**, 500, 182032	0.3	2
199	Local order of Pb1−xLaxZr0.40Ti0.60O3 ferroelectric ceramic materials probed by X-ray absorption and Raman spectroscopies. *Journal of Alloys and Compounds*, **2014**, 582, 680-687	5.7	6
198	Influence of a co-substituted A-site on structural characteristics and ferroelectricity of (Pb, Ba, Ca)TiO3 complex perovskites: analysis of local-, medium- and long-range order. *Journal of Sol-Gel Science and Technology*, **2014**, 69, 605-616	2.3	5
197	High-pressure Raman scattering of MgMoO4. *Vibrational Spectroscopy*, **2013**, 68, 34-39	2.1	16
196	Pressure-induced phase transitions in BaTeMo2O9. *Journal of Alloys and Compounds*, **2013**, 579, 236-242	5.7	10
195	Diamond turning of small Fresnel lens array in single crystal InSb. *Journal of Micromechanics and Microengineering*, **2013**, 23, 055025	2	8
194	High-temperature, high-pressure Raman spectra and their intrinsic anharmonic effects in the perovskite Pb1−xLaxTiO3. *Journal of Applied Physics*, **2013**, 113, 013512	2.5	16
193	Structural refinement, growth mechanism, infrared/Raman spectroscopies and photoluminescence properties of PbMoO4 crystals. *Polyhedron*, **2013**, 50, 532-545	2.7	57
192	Evidence of crystallographic orientation dependence upon cyclic microindentation-induced recrystallization within amorphous surface layer. *Materials Letters*, **2013**, 94, 201-205	3.3	2

191	High pressure Raman scattering of dl-leucine crystals. *Vibrational Spectroscopy*, **2013**, 66, 119-122	2.1	12
190	Lattice dynamics and pressure-induced phase transitions in BaTeMo2O9. *Journal of Physics Condensed Matter*, **2013**, 25, 125404	1.8	11
189	Grain size effect on the structural and dielectric properties of Pb0.85La0.15TiO3 ferroelectric ceramic compound. *Ceramics International*, **2012**, 38, 5879-5887	5.1	12
188	Very Intense Distinct Blue and Red Photoluminescence Emission in MgTiO3 Thin Films Prepared by the Polymeric Precursor Method: An Experimental and Theoretical Approach. *Journal of Physical Chemistry C*, **2012**, 116, 15557-15567	3.8	18
187	Dependence of brittle-to-ductile transition on crystallographic direction in diamond turning of single-crystal silicon. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2012**, 226, 445-458	2.4	20
186	Photoluminescent properties of lead zirconate powders obtained by the polymeric precursor method. *Ceramics International*, **2012**, 38, 4593-4599	5.1	10
185	Effects of reaction temperature on structural properties of ZnO nanocrystals prepared via solochemical technique. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 7986-92	1.3	2
184	Effects of temperature and concentration of La in the form of A1 transverse optical phonon in the PbTiO3 system. *Ceramica*, **2012**, 58, 313-316	1	1
183	Hierarchical Assembly of CaMoO4 Nano-Octahedrons and Their Photoluminescence Properties. *Journal of Physical Chemistry C*, **2011**, 115, 5207-5219	3.8	113
182	A method to synthesize SiO2TiO2 glasses based on the synergy between VAD and ALD techniques: study of TiO2doping profile along radial direction. *Optical Materials*, **2011**, 33, 1938-1942	3.3	2
181	Structural, thermal and vibrational characterization of mechanical alloyed In50Te50. *Materials Chemistry and Physics*, **2011**, 125, 257-262	4.4	12
180	Structure and microstructure of In4Te3 nanopowders prepared by solid state reaction. *Materials Chemistry and Physics*, **2011**, 130, 1361-1365	4.4	6
179	BaZrO3 photoluminescence property: An ab initio analysis of structural deformation and symmetry changes. *International Journal of Quantum Chemistry*, **2011**, 111, 694-701	2.1	18
178	The Role of Short-Range Disorder in BaWO4 Crystals in the Intense Green Photoluminescence. *Journal of Physical Chemistry C*, **2011**, 115, 12180-12186	3.8	21
177	Pressure-temperature-La concentration three-dimensional phase diagram of La-modified PbTiO3 determined by Raman scattering. *Applied Physics Letters*, **2010**, 97, 031903	3.4	11
176	Reply to Comment on Pb1CaxTiO3 solid solution (x=0.0, 0.25, 0.50, and 0.75): A theoretical and experimental approach*Physical Review B*, **2010**, 81,	3.3	3
175	Ageing effect on mechanically alloyed ZnTe nanocrystals. *Journal of Alloys and Compounds*, **2010**, 493, 294-298	5.7	7
174	Room temperature photoluminescence of BCT prepared by Complex Polymerization Method. *Current Applied Physics*, **2010**, 10, 16-20	2.6	21

173	Investigation in SrTiO3-CaTiO3-PbTiO3 ternary thin films by dielectric proprieties and Raman spectroscopy. *Journal of Sol-Gel Science and Technology*, **2010**, 55, 151-157	2.3	1
172	Structural deformation monitored by vibrational properties and orbital modeling in (Pb,Sm)TiO3 systems. *Journal of Physics and Chemistry of Solids*, **2010**, 71, 12-17	3.9	16
171	ZnO architectures synthesized by a microwave-assisted hydrothermal method and their photoluminescence properties. *Solid State Ionics*, **2010**, 181, 775-780	3.3	79
170	Electronic structure and optical properties of BaMoO4 powders. *Current Applied Physics*, **2010**, 10, 614-624	2.4	130
169	Photoluminescence behavior in MgTiO3 powders with vacancy/distorted clusters and octahedral tilting. *Materials Chemistry and Physics*, **2009**, 117, 192-198	4.4	79
168	Influence of synthesis conditions on carbonate entrapment in perovskite SrSnO3. *Materials Letters*, **2009**, 63, 118-120	3.3	29
167	Pressure-induced phase transitions in L-leucine crystal. *Journal of Raman Spectroscopy*, **2009**, 40, 46-51	2.3	39
166	Morphology and Photoluminescence of HfO(2) Obtained by Microwave-Hydrothermal. *Nanoscale Research Letters*, **2009**, 4, 1371-1379	5	56
165	Effects of strontium and calcium simultaneous substitution on electrical and structural properties of Pb1 Ca x Sr y TiO3 thin films. *Applied Physics A: Materials Science and Processing*, **2009**, 96, 731-740	2.6	3
164	Stability of the crystal structure of L-valine under high pressure. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 553-557	1.3	16
163	The role of the Eu3+ ions in structure and photoluminescence properties of SrBi2Nb2O9 powders. *Optical Materials*, **2009**, 31, 995-999	3.3	52
162	(Sr,Tm)ZrO3 powders prepared by the polymeric precursor method: Synthesis, optical properties and morphological characteristics. *Optical Materials*, **2009**, 31, 1134-1143	3.3	22
161	Synthesis, growth process and photoluminescence properties of SrWO4 powders. *Journal of Colloid and Interface Science*, **2009**, 330, 227-36	9.3	124
160	Synthesis of (Ca,Nd)TiO3 powders by complex polymerization, Rietveld refinement and optical properties. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2009**, 74, 1050-9	4.4	44
159	Short-range structure of Pb1BaxZr0.65Ti0.35O3 ceramic compounds probed by XAS and Raman scattering techniques. *Journal of Applied Physics*, **2009**, 105, 033508	2.5	13
158	Intense blue and green photoluminescence emissions at room temperature in barium zirconate powders. *Journal of Alloys and Compounds*, **2009**, 471, 253-258	5.7	59
157	Photoluminescent behavior of BaWO4 powders processed in microwave-hydrothermal. *Journal of Alloys and Compounds*, **2009**, 474, 195-200	5.7	75
156	Structural transition on Pb1SrxTiO3 produced by chemical method. *Journal of Alloys and Compounds*, **2009**, 475, 940-945	5.7	15

155	Influence of the modifier on the short and long range disorder of stannate perovskites. *Journal of Alloys and Compounds*, **2009**, 476, 507-512	5.7	33
154	Polymeric precursor method to the synthesis of XWO4 (X = Ca and Sr) thin films: Structural, microstructural and spectroscopic investigations. *Journal of Alloys and Compounds*, **2009**, 477, 608-615	5.7	16
153	Synthesis and photoluminescence behavior of Bi4Ti3O12 powders obtained by the complex polymerization method. *Journal of Alloys and Compounds*, **2009**, 478, 661-670	5.7	39
152	X-ray diffraction, Raman, and photoacoustic studies of ZnTe nanocrystals. *Journal of Applied Physics* , **2009**, 105, 123532	2.5	30
151	Raman spectroscopy and inelastic neutron scattering study of crystalline L-valine. *Journal of Physics Condensed Matter*, **2009**, 21, 415404	1.8	4
150	Synthesis, Characterization, Anisotropic Growth and Photoluminescence of BaWO4. *Crystal Growth and Design*, **2009**, 9, 1002-1012	3.5	102
149	Morphology and Blue Photoluminescence Emission of PbMoO4 Processed in Conventional Hydrothermal. *Journal of Physical Chemistry C*, **2009**, 113, 5812-5822	3.8	156
148	Structural and morphological characterization of Pb1−xBaxTiO3 thin films prepared by chemical route: An investigation of phase transition. *Materials Chemistry and Physics*, **2008**, 108, 312-318	4.4	3
147	The influence of crystallographic orientation on the generation of multiple structural phases generation in Silicon by cyclic microindentation. *Materials Letters*, **2008**, 62, 812-815	3.3	11
146	Lead and aluminum bonding in Pb-Al metaphosphate glasses. *Inorganic Chemistry*, **2008**, 47, 690-8	5.1	16
145	Hydrothermal Microwave: A New Route to Obtain Photoluminescent Crystalline BaTiO3 Nanoparticles. *Chemistry of Materials*, **2008**, 20, 5381-5387	9.6	147
144	Tunable visible photoluminescence of powdered silica glass. *Journal of Non-Crystalline Solids*, **2008**, 354, 476-479	3.9	10
143	Synthesis and characterization of CuO flower-nanostructure processing by a domestic hydrothermal microwave. *Journal of Alloys and Compounds*, **2008**, 459, 537-542	5.7	200
142	Investigation on the structural properties in Er-doped PbTiO3 compounds: A correlation between experimental and theoretical results. *Journal of Alloys and Compounds*, **2008**, 462, 157-163	5.7	31
141	Study of structural evolution and photoluminescent properties at room temperature of Ca(Zr,Ti)O3 powders. *Journal of Alloys and Compounds*, **2008**, 464, 340-346	5.7	24
140	Influence of minor oxidation of the precursor powders to form nanocrystalline CdTe by mechanical alloying. *Journal of Alloys and Compounds*, **2008**, 466, 80-86	5.7	26
139	Toward an understanding of intermediate- and short-range defects in ZnO single crystals. A combined experimental and theoretical study. *Journal of Physical Chemistry A*, **2008**, 112, 8970-8	2.8	57
138	Photoluminescence of barium titanate and barium zirconate in multilayer disordered thin films at room temperature. *Journal of Physical Chemistry A*, **2008**, 112, 8938-42	2.8	68

137	Experimental and theoretical correlation of very intense visible green photoluminescence in BaZrO3 powders. *Journal of Applied Physics*, **2008**, 103, 063527	2.5	76
136	Phase transformation and residual stress probed by Raman spectroscopy in diamond-turned single crystal silicon. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2008**, 222, 1065-1073	2.4	24
135	Pressure-induced electrical and structural anomalies in Pb1−CaxTiO3thin films grown at various oxygen pressures by chemical solution route. *Journal Physics D: Applied Physics*, **2008**, 41, 115402	3	1
134	The pressure-induced phase transition of mechanically alloyed nanocrystalline GaSb. *Journal of Physics Condensed Matter*, **2008**, 20, 275212	1.8	1
133	Evolution of photoluminescence as a function of the structural order or disorder in CaMoO4 nanopowders. *Journal of Applied Physics*, **2008**, 104, 043505	2.5	40
132	Study of phase transition in (Pb,Ba)TiO3 thin films. *Journal of Applied Physics*, **2008**, 104, 014107	2.5	3
131	High temperature Raman spectra of L-leucine crystals. *Brazilian Journal of Physics*, **2008**, 38, 131-137	1.2	40
130	Effect of the order and disorder of BaMoO4 powders in photoluminescent properties. *Journal of Fluorescence*, **2008**, 18, 51-9	2.4	42
129	High pressure Raman spectra of L-methionine crystal. *Journal of Raman Spectroscopy*, **2008**, 39, 1356-1363	2.3	41
128	Shape controlled synthesis of CaMoO4 thin films and their photoluminescence property. *Journal of Solid State Chemistry*, **2008**, 181, 1249-1257	3.3	36
127	Photoluminescence in the CaxSr1−WO4 system at room temperature. *Journal of Solid State Chemistry*, **2008**, 181, 1876-1881	3.3	36
126	Intense and broad photoluminescence at room temperature in structurally disordered Ba[Zr0.25Ti0.75]O3 powders: An experimental/theoretical correlation. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 1782-1789	3.9	25
125	BaMoO4 powders processed in domestic microwave-hydrothermal: Synthesis, characterization and photoluminescence at room temperature. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 2674-2680	3.9	90
124	Leakage current, ferroelectric and structural properties in Pb1−BaxTiO3 thin films prepared by chemical route. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 2796-2803	3.9	4
123	Raman investigations of rare earth orthovanadates. *Journal of Applied Physics*, **2007**, 101, 053511	2.5	62
122	High temperature phase transition in monohydrated L-asparagine crystal. *Solid State Communications*, **2007**, 141, 29-32	1.6	12
121	Age-induced phase transitions on mechanically alloyed amorphous GaSe. *Solid State Communications*, **2007**, 142, 270-275	1.6	8
120	Er3+ as marker for order–disorder determination in the PbTiO3 system. *Chemical Physics*, **2007**, 335, 7-14	2.3	24

119	Combined experimental and theoretical investigations of the photoluminescent behavior of Ba(Ti,Zr)O3 thin films. *Acta Materialia*, **2007**, 55, 6416-6426	8.4	53
118	Photoluminescent property of mechanically milled BaWO4 powder. *Journal of Luminescence*, **2007**, 126, 741-746	3.8	23
117	Photoluminescence of crystalline and disordered BTO:Mn powder: Experimental and theoretical modeling. *Journal of Luminescence*, **2007**, 126, 771-778	3.8	25
116	Contribution of structural order□disorder to the room-temperature photoluminescence of lead zirconate titanate powders. *Journal of Luminescence*, **2007**, 127, 689-695	3.8	26
115	On the ductile response dependence upon phase transformation in diamond turning of semiconductors. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 261-265	1.3	4
114	Pressure effects on surfactant solubilized single-wall carbon nanotubes. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 105-109	1.3	9
113	Annealing treatment of amorphous silicon generated by single point diamond turning. *International Journal of Advanced Manufacturing Technology*, **2007**, 34, 680-688	3.2	13
112	Intense visible photoluminescence in Ba(Zr0.25Ti0.75)O3 thin films. *Applied Physics Letters*, **2007**, 90, 011901	3.4	58
111	Contribution of structural order-disorder to the green photoluminescence of PbWO4. *Physical Review B*, **2007**, 75,	3.3	44
110	Pb1□CaxTiO3 solid solution (x=0.0, 0.25, 0.50, and 0.75): A theoretical and experimental approach. *Physical Review B*, **2007**, 75,	3.3	12
109	Structure evaluation of submicrometre silicon chips removed by diamond turning. *Semiconductor Science and Technology*, **2007**, 22, 561-573	1.8	19
108	Crystallization of blast furnace slag glass melted in SnO2 crucible. *Journal of Non-Crystalline Solids*, **2007**, 353, 4062-4065	3.9	10
107	Photoluminescence in disordered Zn2TiO4. *Journal of Solid State Chemistry*, **2006**, 179, 985-992	3.3	58
106	High-temperature Raman spectroscopy of monohydrated L-asparagine:Cr3+. *Journal of Raman Spectroscopy*, **2006**, 37, 1393-1397	2.3	2
105	Characterization of La-Doped PBN Ferroelectric Ceramics. *Ferroelectrics*, **2006**, 337, 213-218	0.6	14
104	Non-Hydrostatic Pressure Induced Structural Phase Transitions of Silicon Analyzed by Raman Scattering. *Defect and Diffusion Forum*, **2006**, 258-260, 276-281	0.7	1
103	Effect of the initial structure of silicon surface on the generation of multiple structural phases by cyclic microindentation. *Applied Physics Letters*, **2006**, 89, 031917	3.4	11
102	Raman scattering investigation on structural and chemical disorder generated by laser ablation and mechanical microindentations of InSb single crystal. *Journal of Applied Physics*, **2006**, 100, 053518	2.5	4

101	Room-temperature photoluminescence in structurally disordered SrWO4. *Applied Physics Letters*, **2006**, 88, 211913	3.4	44
100	Photoluminescence at room temperature in disordered Ba0.50Sr0.50(Ti0.80Sn0.20)O3 thin films. *Applied Physics Letters*, **2006**, 88, 211911	3.4	8
99	Photoluminescence in disordered Sm-doped PbTiO3: Experimental and theoretical approach. *Journal of Applied Physics*, **2006**, 100, 034917	2.5	24
98	Correlation among Order□Disorder, Electronic Levels, and Photoluminescence in Amorphous CT:Sm. *Chemistry of Materials*, **2006**, 18, 2904-2911	9.6	43
97	Mechanical alloying: a pressure induced reaction for obtaining zinc blende GaSb and multiphase states. *Journal of Physics Condensed Matter*, **2006**, 18, 8613-22	1.8	7
96	On the changing electrochemical behaviour of boron-doped diamond surfaces with time after cathodic pre-treatments. *Electrochimica Acta*, **2006**, 51, 4612-4619	6.7	184
95	Photoluminescent BaMoO4 nanopowders prepared by complex polymerization method (CPM). *Journal of Solid State Chemistry*, **2006**, 179, 671-678	3.3	100
94	Photoluminescence: A probe for short, medium and long-range self-organization order in ZrTiO4 oxide. *Journal of Solid State Chemistry*, **2006**, 179, 3997-4002	3.3	22
93	Growth and characterization of LiYF4:Nd single crystal fibres for optical applications. *Journal of Crystal Growth*, **2006**, 292, 149-154	1.6	13
92	Structural, thermal and optical studies of mechanical alloyed Ga40Se60 mixture. *Solid State Communications*, **2006**, 139, 70-75	1.6	20
91	Visible PL Phenomenon at Room Temperature in Disordered Structure of SrWO4 Powder. *Journal of Computer-Aided Materials Design*, **2006**, 12, 111-119		7
90	Room-temperature photoluminescence of BaTiO3: Joint experimental and theoretical study. *Physical Review B*, **2005**, 71,	3.3	93
89	Structural phase transition and dynamical properties of PbTiO simulated by molecular dynamics. *Journal of Physics Condensed Matter*, **2005**, 17, 5771-5783	1.8	18
88	Photoluminescence properties of BaMoO4 amorphous thin films. *Journal of Solid State Chemistry*, **2005**, 178, 2346-2353	3.3	55
87	Luminescence effect in amorphous PLT. *Journal of the European Ceramic Society*, **2005**, 25, 1175-1181	6	2
86	The nature of the photoluminescence in amorphized PZT. *Journal of Luminescence*, **2005**, 111, 205-213	3.8	39
85	Reverse Monte Carlo simulations and Raman scattering of an amorphous GeSe4 alloy produced by mechanical alloying. *Solid State Communications*, **2005**, 133, 411-416	1.6	21
84	Conditions giving rise to intense visible room temperature photoluminescence in SrWO4 thin films: the role of disorder. *Chemical Physics*, **2005**, 312, 1-9	2.3	53

83	The role of structural order□disorder for visible intense photoluminescence in the BaZr0.5Ti0.5O3 thin films. *Chemical Physics*, **2005**, 316, 260-266	2.3	34
82	Molecular dynamics simulation of the structural and dynamical properties of crystalline BaO. *Physical Review B*, **2005**, 71,	3.3	12
81	Experimental and theoretical investigation of the room-temperature photoluminescence of amorphized Pb(Zr,Ti)O3. *ChemPhysChem*, **2005**, 6, 1530-6	3.2	23
80	Absence of relaxor-like ferroelectric phase transition in (Pb,Sr)TiO3 thin films. *Applied Physics A: Materials Science and Processing*, **2005**, 80, 813-817	2.6	15
79	Theoretical and experimental study of the relation between photoluminescence and structural disorder in barium and strontium titanate thin films. *Journal of the European Ceramic Society*, **2005**, 25, 2337-2340	6	17
78	Towards an insight on the photoluminescence of disordered CaWO4 from a joint experimental and theoretical analysis. *Journal of Solid State Chemistry*, **2005**, 178, 1284-1291	3.3	46
77	Room temperature photoluminescence of the Li2ZnTi3O8 spinel: Experimental and theoretical study. *International Journal of Quantum Chemistry*, **2005**, 103, 580-587	2.1	9
76	Characterization of structural alteration in diamond turned silicon crystal by means of micro raman spectroscopy and transmission electron microscopy. *Materials Research*, **2005**, 8, 261-268	1.5	2
75	O papel dos modificadores de rede na produ□ da fotoluminesc^ncia no CaWO4. *Ceramica*, **2004**, 50, 43-49	1	5
74	Interaction potential for InSb: a molecular dynamics study. *Brazilian Journal of Physics*, **2004**, 34, 347	1.2	4
73	Fotoluminesc^ncia em materiais com desordem estrutural. *Ceramica*, **2004**, 50, 138-144	1	12
72	Is there a link between very high strain and metastable phases in semiconductors: cases of Si and GaAs?. *Journal of Physics Condensed Matter*, **2004**, 16, S39-S47	1.8	2
71	Reverse Monte Carlo simulations, Raman scattering, and thermal studies of an amorphous Ge30Se70 alloy produced by mechanical alloying. *Journal of Chemical Physics*, **2004**, 120, 329-36	3.9	12
70	Structural analysis of pure and LiCF3SO3-doped amorphous WO3 electrochromic films and discussion on coloration kinetics. *Journal of Applied Physics*, **2004**, 96, 2102-2109	2.5	25
69	High oxygen-pressure annealing effects on the ferroelectric and structural properties of PbZr0.3Ti0.7O3 thin films. *Journal of Applied Physics*, **2004**, 96, 2186-2191	2.5	18
68	Controlling the optical properties of disordered GaAs/AlxGa1□As superlattices. *Physical Review B*, **2004**, 69,	3.3	4
67	Investigation of phase transition in ferroelectric Pb0.70Sr0.30TiO3 thin films. *Journal of Applied Physics*, **2004**, 96, 1192-1196	2.5	33
66	The effect of the cation substitution on the structural and vibrational properties of Cs2NaGaxSc(1-x)F6 solid solution. *Journal of Chemical Physics*, **2004**, 121, 3184-90	3.9	8

65	Characterization of BaTi1−xZrxO3 thin films obtained by a soft chemical spin-coating technique. *Journal of Applied Physics*, **2004**, 96, 4386-4391	2.5	59
64	Strain Determination Around Vickers Indentation on Silicon Surface by Raman Spectroscopy. *Journal of Materials Research*, **2004**, 19, 1273-1280	2.5	8
63	Ferroelectric phase transition in Pb0.60Sr0.40TiO3 thin films. *Materials Chemistry and Physics*, **2004**, 87, 353-356	4.4	4
62	Structural, thermal and optical studies of Ni3Se2 compound produced by mechanical alloying. *Solid State Ionics*, **2004**, 168, 205-210	3.3	16
61	A Raman and dielectric study of a diffuse phase transition in (Pb1-xCax)TiO3 thin films. *Applied Physics A: Materials Science and Processing*, **2004**, 78, 349-354	2.6	12
60	Photoluminescence in amorphous zirconium titanate. *Applied Physics A: Materials Science and Processing*, **2004**, 78, 355-358	2.6	17
59	Influence of strontium concentration on the structural, morphological, and electrical properties of lead zirconate titanate thin films. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 593-597	2.6	8
58	Preparation of Pb(Zr,Ti)O 3 thin films by soft chemical route. *Journal of the European Ceramic Society*, **2004**, 24, 2969-2976	6	34
57	Optical phonons in mechanical alloyed Zn50Se50 mixture. *Vibrational Spectroscopy*, **2004**, 36, 117-121	2.1	1
56	An investigation of metal oxides which are photoluminiscent at room temperature. *Computational and Theoretical Chemistry*, **2004**, 668, 87-91		6
55	Hexagonal CoSe formation in mechanical alloyed Co75Se25 mixture. *Solid State Communications*, **2004**, 131, 265-270	1.6	31
54	XRD, DSC, MS and RS studies of Fe75Se25 iron selenide prepared by mechano-synthesis. *Journal of Magnetism and Magnetic Materials*, **2004**, 270, 89-98	2.8	29
53	Origin of photoluminescence in SrTiO3: a combined experimental and theoretical study. *Journal of Solid State Chemistry*, **2004**, 177, 3879-3885	3.3	57
52	A DFT rationalization of the room temperature photoluminescence of Li2TiSiO5. *Chemical Physics Letters*, **2004**, 398, 330-335	2.5	16
51	Combined Experimental and Theoretical Study to Understand the Photoluminescence of Sr1-xTiO3-x. *Journal of Physical Chemistry B*, **2004**, 108, 9221-9227	3.4	36
50	Density functional theory calculation of the electronic structure of Ba0.5Sr0.5TiO3: Photoluminescent properties and structural disorder. *Physical Review B*, **2004**, 69,	3.3	94
49	Effects of post-annealing on the dielectric properties of Au/BaTiO3/Pt thin film capacitors. *Materials Letters*, **2004**, 58, 1715-1721	3.3	14
48	The origin of photoluminescence in amorphous lead titanate. *Journal of Materials Science*, **2003**, 38, 1175-1178	2.3	27

47	Nucleation and growth of nanocrystalline pyrite nickel diselenide by mechanical alloying. *Solid State Communications*, **2003**, 128, 229-234	1.6	25
46	Photoluminescence at room temperature in amorphous SrTiO3 thin films obtained by chemical solution deposition. *Materials Chemistry and Physics*, **2003**, 77, 598-602	4.4	89
45	The role of network modifiers in the creation of photoluminescence in CaTiO3. *Materials Chemistry and Physics*, **2003**, 78, 227-233	4.4	79
44	GaSe formation by mechanical alloying Ga50Se50 mixture. *Solid State Communications*, **2003**, 126, 611-615	1.6	22
43	Photoluminescence in amorphous PLZ. *Ceramics International*, **2003**, 29, 793-799	5.1	5
42	Preparation, structural and optical characterization of BaWO4 and PbWO4 thin films prepared by a chemical route. *Journal of the European Ceramic Society*, **2003**, 23, 3001-3007	6	89
41	Theoretical and experimental study on the photoluminescence in BaTiO3 amorphous thin films prepared by the chemical route. *Journal of Luminescence*, **2003**, 104, 175-185	3.8	70
40	Molecular dynamics simulation of dynamical properties of InSb. *Physical Review B*, **2003**, 68,	3.3	9
39	Residual strain field in indented GaAs. *Journal of Materials Research*, **2003**, 18, 1474-1480	2.5	8
38	Structural phase evolution of strontium-doped lead titanate thin films prepared by the soft chemical technique. *Journal of Materials Research*, **2003**, 18, 659-663	2.5	21
37	Electrical conduction mechanism and phase transition studies using dielectric properties and Raman spectroscopy in ferroelectric Pb0.76Ca0.24TiO3 thin films. *Journal of Applied Physics*, **2003**, 94, 7256-7260	2.5	17
36	Preparação de LiNbO3 e LiNbO3:Eu3+ pelo método dos precursores poliméricos. *Quimica Nova*, **2002**, 25, 1067-1073	1.6	15
35	Amorphization and grain size effect on milled PbTiO3 studied by Raman scattering and visible photoluminescence emission. *Applied Physics A: Materials Science and Processing*, **2002**, 74, 787-789	2.6	13
34	A novel approach for the development of photoluminescent material. *Applied Physics A: Materials Science and Processing*, **2002**, 74, 529-532	2.6	13
33	Room-temperature photoluminescence in amorphous SrTiO3: the influence of acceptor-type dopants. *Applied Physics A: Materials Science and Processing*, **2002**, 75, 629-632	2.6	27
32	Structural studies of cobalt selenides prepared by mechanical alloying. *Physica B: Condensed Matter* , **2002**, 324, 409-418	2.8	59
31	Morphological studies of annealed GaAs and GaSb surfaces by micro-Raman spectroscopy and EDX microanalysis. *Applied Surface Science*, **2002**, 200, 111-116	6.7	16
30	Photoluminescence in amorphous (PbLa)TiO3 thin films deposited on different substrates. *Journal of Luminescence*, **2002**, 99, 85-90	3.8	2

29	Structural studies of iron selenides prepared by mechanical alloying. *Solid State Communications*, **2002**, 123, 179-184	1.6	48
28	Topotatic-Like Phase Transformation of Amorphous Lead Titanate to Cubic Lead Titanate. *Journal of the American Ceramic Society*, **2002**, 85, 2166-2170	3.8	11
27	Structural phase transformation in InSb: A molecular dynamics simulation. *Physical Review B*, **2002**, 66,	3.3	11
26	Influence of Ca concentration on the electric, morphological, and structural properties of (Pb,Ca)TiO[sub 3] thin films. *Journal of Applied Physics*, **2002**, 91, 6650	2.5	53
25	Visible photoluminescence in amorphous ABO3 perovskites. *Applied Physics Letters*, **2002**, 81, 253-255	3.4	43
24	Synthesis of SnO2 nanoribbons by a carbothermal reduction process. *Journal of Nanoscience and Nanotechnology*, **2002**, 2, 125-8	1.3	41
23	Ferroelectric and optical properties of Ba0.8Sr0.2TiO3 thin film. *Journal of Applied Physics*, **2002**, 91, 5972-5978	2.5	67
22	Photoluminescence in amorphous TiO2-PbO systems. *Applied Physics A: Materials Science and Processing*, **2001**, 73, 567-569	2.6	15
21	Raman scattering investigation on the phase evolution of ferroelectric lead barium niobate. *Journal of Physics and Chemistry of Solids*, **2001**, 62, 1247-1250	3.9	10
20	Strain effects on As and Sb segregates immersed in annealed GaAs and GaSb by Raman spectroscopy. *Journal of Applied Physics*, **2001**, 89, 3631-3633	2.5	13
19	Photoluminescence of nanostructured PbTiO3 processed by high-energy mechanical milling. *Applied Physics Letters*, **2001**, 78, 2148-2150	3.4	52
18	Correlation between the surface morphology and structure and the photoluminescence of amorphous PbTiO3 thin films obtained by the chemical route. *Advanced Materials for Optics and Electronics*, **2000**, 10, 81-89		29
17	Amorphous lead titanate: a new wide-band gap semiconductor with photoluminescence at room temperature. *Advanced Materials for Optics and Electronics*, **2000**, 10, 235-240		57
16	Brittle to ductile transition dependence upon the transition pressure value of semiconductors in micromachining. *Journal of Materials Research*, **2000**, 15, 1688-1692	2.5	15
15	Raman characterization of structural disorder and residual strains in micromachined GaAs. *Journal of Applied Physics*, **2000**, 87, 1280-1283	2.5	30
14	Anharmonic frequency shift of long-wavelength phonons in As and Sb. *Applied Physics Letters*, **2000**, 77, 2924-2925	3.4	4
13	Surface amorphization in diamond turning of silicon crystal investigated by transmission electron microscopy. *Journal of Non-Crystalline Solids*, **2000**, 272, 174-178	3.9	16
12	Photoluminescence of disordered ABO3 perovskites. *Applied Physics Letters*, **2000**, 77, 824-826	3.4	160

11	Ductile and brittle modes in single-point-diamond-turning of silicon probed by Raman scattering. *Journal of Materials Science Letters*, **1999**, 18, 1185-1187		38
10	Short-range disorder in lanthanum-doped lead titanate ceramics probed by Raman scattering. *Applied Physics Letters*, **1998**, 72, 897-899	3.4	45
9	Alloying effects on the critical layer thickness in InxGa1AsInP heterostructures analyzed by Raman scattering. *Applied Physics Letters*, **1998**, 72, 436-438	3.4	11
8	Raman probing of thermal damage depth profile in annealed GaAs. *Journal of Applied Physics*, **1998**, 84, 6588-6591	2.5	17
7	Characterization of GaAs wire crystals grown on porous silicon by Raman scattering. *Journal of Applied Physics*, **1997**, 82, 6247-6250	2.5	17
6	Tensile and compressive strain relief in InxGa1As epilayers grown on InP probed by Raman scattering. *Journal of Applied Physics*, **1997**, 82, 803-809	2.5	48
5	MBE growth and Raman analysis of [hhk]GaAs/(Si or CaF2) highly strained hetero-structures. *Microelectronics Journal*, **1995**, 26, 789-795	1.8	6
4	Strain relaxation in [001]- and [111]-GaAs/CaF2 analyzed by Raman spectroscopy. *Journal of Applied Physics*, **1995**, 77, 1126-1132	2.5	15
3	High strain effects evidenced by Raman scattering in arsenic clusters in As-implanted GaAs. *Applied Physics Letters*, **1995**, 66, 1927-1929	3.4	28
2	Raman scattering study of [hhk]-GaAs/(Si or CaF2) strained heterostructures. *Journal of Applied Physics*, **1994**, 76, 2773-2780	2.5	11
1	Au and Au?Zn contacts on p-GaSb and the characteristics of the interfaces. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1993**, 20, 328-331	3.1	