

Ivan Gregora

List of Publications by Year in descending order

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2,539
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172457

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docs citations

90
times ranked

3209
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Contrast and Raman Spectroscopy Techniques Applied to Few-Layer 2D Hexagonal Boron Nitride. <i>Nanomaterials</i> , 2019, 9, 1047.	4.1	16
2	Photoanodes with Fully Controllable Texture: The Enhanced Water Splitting Efficiency of Thin Hematite Films Exhibiting Solely (110) Crystal Orientation. <i>ACS Nano</i> , 2015, 9, 7113-7123.	14.6	102
3	Catching the intermediate phase in PZT 99/1 single crystals. <i>Phase Transitions</i> , 2014, 87, 1105-1113.	1.3	6
4	Multiple Soft-Mode Vibrations of Lead Zirconate. <i>Physical Review Letters</i> , 2014, 112, 197601.	7.8	110
5	Ferroelectricity in antiferroelectric NaNbO_3 crystal. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 125901.	1.8	21
6	High-power pulsed plasma deposition of hematite photoanode for PEC water splitting. <i>Catalysis Today</i> , 2014, 230, 8-14.	4.4	32
7	Raman study of $0.62\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3 \approx 0.38\text{PbTiO}_3$ single crystal. <i>Phase Transitions</i> , 2014, 87, 1080-1085.	1.3	0
8	Analysis of composition homogeneity and polarization orientation of PZT submicron fibers by micro-Raman spectroscopy. <i>Journal of the European Ceramic Society</i> , 2014, 34, 2311-2316.	5.7	4
9	Investigation of reactive HiPIMS+MF sputtering of TiO_2 crystalline thin films. <i>Surface and Coatings Technology</i> , 2013, 232, 376-383.	4.8	30
10	Raman and IR phonons in ferroelectric $\text{Sr}_{0.35}\text{Ba}_{0.69}\text{Nb}_2\text{O}_{6.04}$ single crystals. <i>Phase Transitions</i> , 2013, 86, 217-229.	1.3	20
11	Ferroelectric nanodomains in epitaxial PbTiO_3 films grown on SmScO_3 and TbScO_3 substrates. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	31
12	Mechanical and Tribological Properties of Carbon Thin Film with Tungsten Interlayer Prepared by Ion Beam Assisted Deposition. <i>Journal of Materials</i> , 2013, 2013, 1-4.	0.1	1
13	Resolved E-symmetry zone-centre phonons in LiTaO_3 and LiNbO_3 . <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	76
14	Raman spectroscopy of dip-coated and spin-coated sol-gel TiO_2 thin films on different types of glass substrate. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 63, 294-306.	2.4	17
15	Vibrational spectra of guanylurea(1+) hydrogen phosphite—Novel remarkable material for nonlinear optics. <i>Vibrational Spectroscopy</i> , 2012, 63, 485-491.	2.2	15
16	Raman Spectroscopy of $\text{Sr}_x\text{Pb}_{1-x}\text{TiO}_3$ Thin Films. <i>Ferroelectrics</i> , 2012, 426, 45-52.	0.6	5
17	LiTaO_3 crystals with near-zero birefringence. <i>Journal of Applied Crystallography</i> , 2012, 45, 1030-1037.	4.5	10
18	Lattice dynamics and broad-band dielectric properties of the KTaO_3 ceramics. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	19

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19	Structure Determination and Compositional Modification of Body-Centered Tetragonal PX-Phase Lead Titanate. <i>Chemistry of Materials</i> , 2011, 23, 2529-2535.	6.7	18
20	Domain structure and Raman modes in PbTiO_3 . <i>Phase Transitions</i> , 2011, 84, 509-520.	1.3	7
21	Raman spectroscopy of $\text{Pb}(\text{Zr}_{1-x}\text{Ti}_x)\text{O}_3$ graded ceramics around the morphotropic phase boundary. <i>Phase Transitions</i> , 2011, 84, 528-541.	1.3	28
22	Role of trivalent Sr substituents and Sr vacancies in tetragonal and polar states of SrTiO_3 . <i>Acta Materialia</i> , 2011, 59, 5388-5397.	7.9	40
23	Photoelectrochemical properties of hierarchical nanocomposite structure: Carbon nanofibers/ TiO_2/ZnO thin films. <i>Catalysis Today</i> , 2011, 161, 8-14.	4.4	27
24	Discriminating adenocarcinoma from normal colonic mucosa through deconvolution of Raman spectra. <i>Journal of Biomedical Optics</i> , 2011, 16, 127001.	2.6	17
25	Notes on the photo-induced characteristics of transition metal-doped and undoped titanium dioxide thin films. <i>Journal of Colloid and Interface Science</i> , 2010, 348, 198-205.	9.4	69
26	Double hollow cathode plasma jet-low temperature method for the $\text{TiO}_2\text{-N}$ photoresponding films. <i>Electrochimica Acta</i> , 2010, 55, 1548-1556.	5.2	26
27	Ultrabroadband dielectric spectroscopy and phonons in $(\text{Pb}_{1-x}/2\text{La}_x)(\text{Zr}_{0.9}\text{Ti}_{0.1})\text{O}_3$. <i>Journal of Applied Physics</i> , 2010, 108, 104101.	2.5	17
28	Nanocrystalline titanium dioxide films: Influence of ambient conditions on surface- and volume-related photoluminescence. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	59
29	Class-forming ability and structure of $\text{ZnO-MoO}_3\text{-P}_2\text{O}_5$ glasses. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2509-2516.	3.1	49
30	Lattice dynamics and dielectric response of undoped, soft and hard $\text{PbZr}_{0.42}\text{Ti}_{0.58}\text{O}_3$. <i>Phase Transitions</i> , 2010, 83, 917-930.	1.3	50
31	Properties of BaTiO_3 confined in nanoporous Vycor and artificial opal silica. <i>Processing and Application of Ceramics</i> , 2010, 4, 215-223.	0.8	12
32	Preparation of thin phthalocyanine layers and their structural and absorption properties. <i>Thin Solid Films</i> , 2009, 517, 5274-5279.	1.8	21
33	Structure and properties of MoO_3 -containing zinc borophosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 970-975.	3.1	79
34	Lattice dynamics and phase transitions in KNbO_3 and $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ ceramics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 1843-1849.	3.0	21
35	Atmospheric pressure barrier torch discharge and its optimization for flexible deposition of TiO_2 thin coatings on various surfaces. <i>Surface and Coatings Technology</i> , 2009, 204, 667-675.	4.8	24
36	Grain Boundary and Size Effect on the Dielectric, Infrared and Raman Response of SrTiO_3 Nanograin Ceramics. <i>Ferroelectrics</i> , 2008, 363, 227-244.	0.6	24

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37	Raman spectroscopy and effective dielectric function in PLZT $40 \times 40 \times 60$. Journal of Physics Condensed Matter, 2008, 20, 345229.	1.8	41
38	Pressure-induced changes in the optical properties of quasi-one-dimensional NaVO_2 . Journal of Physics Condensed Matter, 2007, 19, 196222.	3.2	18
39	Lanthanum borogermanate glass-based active dielectrics. Journal of Non-Crystalline Solids, 2007, 353, 1956-1960.	3.1	31
40	Infrared and Raman studies of the dead grain-boundary layers in SrTiO ₃ fine-grain ceramics. Journal of Physics Condensed Matter, 2007, 19, 196222.	1.8	35
41	Dielectric permittivity and Cr ³⁺ impurity ion probe luminescence in SrTiO ₃ sol-gel ceramics. Journal of the European Ceramic Society, 2007, 27, 3705-3707.	5.7	6
42	Grain boundary effects on dielectric, infrared and Raman response of SrTiO ₃ nanograin ceramics. Journal of the European Ceramic Society, 2006, 26, 2855-2859.	5.7	38
43	Grain size and grain boundary-related effects on the properties of nanocrystalline barium titanate ceramics. Journal of the European Ceramic Society, 2006, 26, 2889-2898.	5.7	190
44	Raman and AFM piezoresponse study of dense BaTiO ₃ nanocrystalline ceramics. Journal of the European Ceramic Society, 2005, 25, 3059-3062.	5.7	85
45	Amplitudon Mode in Deuterated Thiourea by Raman Scattering. Ferroelectrics, 2004, 302, 155-157.	0.6	2
46	Preparation of silicon nanoaggregates by thermal activated reaction. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 100, 27-34.	3.5	8
47	Dielectric relaxation in tetragonal tungsten bronze ceramics. Journal of Physics and Chemistry of Solids, 2003, 64, 471-476.	4.0	44
48	Raman study of AlPO ₄ (berlinite) at the $\hat{A} \hat{A} \hat{A}$ transition. Journal of Physics Condensed Matter, 2003, 15, 4487-4501.	1.8	29
49	Directional Dispersion of Polar Optical Phonon Frequencies in Low-Symmetry Crystals: Raman Studies on Sn ₂ P ₂ S ₆ . Ferroelectrics, 2002, 267, 237-243.	0.6	2
50	Rapid crystallization of amorphous silicon at room temperature. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 1785-1793.	0.6	21
51	Amorphous nanostructuring in potassium niobium silicate glasses by SANS and SHG: a new mechanism for second-order optical non-linearity of glasses. Journal of Non-Crystalline Solids, 2002, 306, 238-248.	3.1	55
52	Structure refinement, infrared and Raman spectra of KDyP ₄ O ₁₂ . Materials Research Bulletin, 2002, 37, 1259-1267.	5.2	12
53	Structure of lead germanate glasses by Raman spectroscopy. Journal of Non-Crystalline Solids, 2001, 279, 136-144.	3.1	70
54	Vibrational spectroscopy of LaBSiO ₅ glass and glass-crystal composites. Journal of Non-Crystalline Solids, 2001, 290, 224-230.	3.1	20

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55	Far infrared and Raman spectroscopy of ferroelectric soft mode in SrTiO ₃ thin films and ceramics. <i>Integrated Ferroelectrics</i> , 2001, 32, 11-20.	0.7	8
56	Diagnostics of Si multi- $\dot{\Gamma}$ -doped GaAs layers by Raman spectroscopy on bevelled structures. <i>Applied Surface Science</i> , 2001, 183, 86-92.	6.1	9
57	Polar grain boundaries in undoped SrTiO ₃ ceramics. <i>Journal of the European Ceramic Society</i> , 2001, 21, 2681-2686.	5.7	16
58	Vibration properties of Pb ₅ Ge ₃ O ₁₁ and LaBGeO ₅ glasses and crystallised glasses. <i>Ferroelectrics</i> , 2000, 239, 39-46.	0.6	11
59	Wanted: Amplitudon mode in raman spectra of BCCD. <i>Ferroelectrics</i> , 2000, 240, 1383-1390.	0.6	1
60	Visible photoluminescence in hydrogenated amorphous silicon grown in microwave plasma from SiH ₄ strongly diluted with He. <i>Journal of Applied Physics</i> , 1999, 86, 1415-1419.	2.5	10
61	Applicability of Raman scattering for the characterization of nanocrystalline silicon. <i>Thin Solid Films</i> , 1999, 337, 148-151.	1.8	160
62	Optical Phonons and Ferroelectric Phase Transition in the LaBGeO ₅ Crystal. <i>Physica Status Solidi (B): Basic Research</i> , 1999, 214, 423-439.	1.5	25
63	Far-Infrared and Raman Studies of the Ferroelectric Phase Transition in LiNaGe ₄ O ₉ . <i>Physica Status Solidi (B): Basic Research</i> , 1999, 214, 441-452.	1.5	13
64	Raman spectra and improper ferroelastic phase transition in single crystal. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 889-903.	1.8	6
65	Near infra-red luminescence of BaTiO ₃ : Cr. <i>Radiation Effects and Defects in Solids</i> , 1999, 149, 107-112.	1.2	10
66	Laser photolysis of liquid hexafluorobenzene: graphitic and fluorine-containing carbon formation at ambient temperature. <i>Journal of Materials Chemistry</i> , 1998, 8, 187-191.	6.7	5
67	Observations of the absorption, infra-red emission, and excitation spectra of Cr in. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 10775-10786.	1.8	12
68	Raman scattering of silicon clathrates. <i>Physical Review B</i> , 1998, 57, R9475-R9477.	3.2	40
69	Pseudophason gap in deuterated betaine calcium chloride dihydrate crystal. <i>Physical Review B</i> , 1997, 56, 13855-13860.	3.2	7
70	Laser photolysis of liquid benzene and toluene: Graphitic and polymeric carbon formation at ambient temperature. <i>Carbon</i> , 1997, 35, 605-611.	10.3	41
71	Raman scattering in the proton conductor Rb ₃ H(SeO ₄) ₂ . <i>Solid State Ionics</i> , 1996, 91, 145-153.	2.7	10
72	Infrared and raman spectroscopy on various PLZT ceramics. <i>Ferroelectrics</i> , 1996, 186, 115-118.	0.6	15

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73	Raman spectra of crystals in the proton glass state. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 3965-3975.	1.8	11
74	Anisotropic and polarization effects in Raman scattering in porous silicon. <i>Thin Solid Films</i> , 1995, 255, 139-142.	1.8	31
75	IR laser degradation of some fluoro-polymers. <i>Journal of Fluorine Chemistry</i> , 1995, 72, 111-116.	1.7	1
76	The transition to a proton glass state in Cs ₅ H ₃ (SO ₄) ₄ · H ₂ O. <i>Solid State Ionics</i> , 1995, 77, 122-127.	2.7	20
77	Raman spectroscopy of the zone centre improper ferroelastic transition in ordered complex perovskite ceramic. <i>Solid State Communications</i> , 1995, 94, 899-903.	1.9	38
78	Raman spectra of DRADP-50 dipolar glass. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 683-695.	1.8	7
79	Raman investigation of light-emitting porous silicon layers: Estimate of characteristic crystallite dimensions. <i>Journal of Applied Physics</i> , 1994, 75, 3034-3039.	2.5	50
80	Raman spectra and electrical conductivity of glassy carbon. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1992, 11, 355-357.	3.5	46
81	Raman scattering by the coupled plasmon-LO-phonon modes near the E ₀ +Γ ₀ gap of n-type GaAs: Resonance and interference effects. <i>Physical Review B</i> , 1990, 42, 5802-5808.	3.2	11
82	Raman scattering study of GaP:N epitaxial layers. <i>Journal of Physics and Chemistry of Solids</i> , 1988, 49, 797-805.	4.0	9
83	Raman scattering in GeS single crystals at low temperatures. <i>Physica Status Solidi (B): Basic Research</i> , 1983, 116, 639-643.	1.5	7
84	Laser Raman polarization spectra of natural zeolite-natrolite. <i>Collection of Czechoslovak Chemical Communications</i> , 1981, 46, 3043-3048.	1.0	9
85	Refractive Index of Crystalline and Amorphous GeS. <i>Physica Status Solidi (B): Basic Research</i> , 1981, 104, K95.	1.5	17
86	Optical properties of hydrogenated sputtered silicon in the 0-13 eV photon energy range. <i>Solar Energy Materials and Solar Cells</i> , 1980, 4, 1-10.	0.4	13
87	WKB analysis of guided and semileaky modes in graded-index anisotropic optical waveguides. <i>Optics Communications</i> , 1979, 28, 59-63.	2.1	7
88	Optical constants of single-crystal GeS in the photon energy range 0.04-4 eV. <i>Journal of Physics and Chemistry of Solids</i> , 1976, 37, 785-794.	4.0	32
89	Raman Spectra of Crystalline GeS. <i>Physica Status Solidi (B): Basic Research</i> , 1975, 71, K187.	1.5	12
90	Far infrared reflectivity of CdS ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 1972, 49, 271-275.	1.5	9