Jan PokornÃ½

List of Publications by Year
in descending order

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105	3,688	159585	133252
papers	citations	30 h-index	59 g-index

107	107	107	4190
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystal chemistry and domain structure of rare-earth doped BiFeO3 ceramics. Journal of Materials Science, 2009, 44, 5102-5112.	3.7	290
2	Effects of sintering temperature on the internal barrier layer capacitor (IBLC) structure in CaCu3Ti4O12 (CCTO) ceramics. Journal of the European Ceramic Society, 2012, 32, 3313-3323.	5.7	277
3	Dielectric, infrared, and Raman response of undopedSrTiO3ceramics: Evidence of polar grain boundaries. Physical Review B, 2001, 64, .	3.2	248
4	Use of Raman spectroscopy to determine the site occupancy of dopants in BaTiO3. Journal of Applied Physics, 2011, 109, .	2.5	209
5	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
6	Raman spectroscopy of carbon and solid bitumens in sedimentary and metamorphic rocks. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2341-2352.	3.9	171
7	Angular dispersion of oblique phonon modes in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">BiFeO</mml:mi><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>f micro-Raman scattering. Physical Review B, 2011, 83, .	3.2	123
8	A Highâ€Temperatureâ€Capacitor Dielectric Based on <scp><scp>K</scp></scp>_{0.5}<scp><scp>Na</scp></scp>_{0.5}<scp><scp>NbO</scp></scp>₃â€ <scp><scp>Bi</scp></scp>_{1/2}<scp><scp>Na</scp></scp>_{1/2}<scp><scp>TiO</scp></scp>₃â€“ Journal of the American Ceramic Society, 2012, 95, 3519-3524.	3.8	121
9	Origin of soft-mode stiffening and reduced dielectric response inSrTiO3thin films. Physical Review B, 2002, 66, .	3.2	114
10	Excitation of vibrations in microtubules in living cells. Bioelectrochemistry, 2004, 63, 321-326.	4.6	97
11	Local structure, pseudosymmetry, and phase transitions in Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>Bi<mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>TiO<mml: xmlns:mml="http://www.w3.org/1998/Math/MathML" disp. Physical Review B, 2013, 87, .	3.2	97
12	Polar order and diffuse scatter in Ba(Ti1â^'xZrx)O3 ceramics. Journal of Applied Physics, 2009, 106, .	2.5	95
13	Phonons in MgB2 by polarized Raman scattering on single crystals. Physical Review B, 2001, 64, .	3.2	72
14	Vibrations in microtubules. Journal of Biological Physics, 1997, 23, 171-179.	1.5	70
15	ELECTROMAGNETIC ACTIVITY OF YEAST CELLS IN THE M PHASE. Electromagnetic Biology and Medicine, 2001, 20, 371-396.	0.4	67
16	Relaxor Characteristics of the Phase Transformation in (1Ââ^'Âx)<scp><scp>BaTiO</scp></scp>₃â€“x<scp><scp>Bi</scp></scp>(<scp><scp>Zn Perovskite Ceramics. Journal of the American Ceramic Society, 2013, 96, 3176-3182.	3.8	65
17	Displacive Ordering Transitions in Perovskite-Like AgNb_{1/2}Ta_{1/2}O₃. Chemistry of Materials, 2010, 22, 4987-4995.	6.7	63
18	Composition dependence of the lattice vibrations in Srn+1TinO3n+1 Ruddlesdenâ€“Popper homologous series. Journal of the European Ceramic Society, 2003, 23, 2639-2645.	5.7	55

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19	Infrared and microwave dielectric response of the disordered antiferroelectric Ag(Ta,Nb)O3system. Ferroelectrics, 1999, 223, 235-246.	0.6	52
20	Ferroelastic phase in SrBi2Ta2O9 and study of the ferroelectric phase-transition dynamics. Applied Physics Letters, 2002, 81, 1056-1058.	3.3	52
21	Electromechanical strain in Bi(Zn1/2Ti1/2)O3â€“(Bi1/2Na1/2)TiO3â€“(Bi1/2K1/2)TiO3 solid solutions. Journal of Applied Physics, 2012, 111, .	2.5	51
22	Polymorphism, Phase Transitions, and Thermal Stability of <scp>l</scp>-Pyroglutamic Acid. Crystal Growth and Design, 2010, 10, 3141-3148.	3.0	46
23	Conditions for coherent vibrations in the cytoskeleton. Bioelectrochemistry, 1999, 48, 267-271.	1.0	45
24	Postulates on electromagnetic activity in biological systems and cancer. Integrative Biology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.3	44
25	Dielectric properties of Mn doped SrTiO₃. Journal of Physics Condensed Matter, 2008, 20, 095221.	1.8	41
26	Lattice dynamics and dielectric response of Mg-doped SrTiO3 ceramics in a wide frequency range. Journal of Applied Physics, 2005, 97, 044104.	2.5	39
27	Raman spectroscopy of the zone centre improper ferroelastic transition in ordered complex perovskite ceramic. Solid State Communications, 1995, 94, 899-903.	1.9	38
28	Endogenous Electric Field and Organization of Living Matter. Electromagnetic Biology and Medicine, 2005, 24, 185-197.	1.4	37
29	Viscous Effects on Polar Vibrations in Microtubules. Electromagnetic Biology and Medicine, 2003, 22, 15-29.	1.4	34
30	Broad-band dielectric spectroscopy ofSrTiO3:Biceramics. Physical Review B, 2004, 69, .	3.2	33
31	Mechanisms of the Effect of Dopants and P(O2) on the Improper Ferroelastic Phase Transition in SrTiO3. Chemistry of Materials, 2007, 19, 6471-6477.	6.7	31
32	Lattice modes and the Jahn-Teller ferroelectric transition of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GaV</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mo>(</mml:mo><mml:mi mathvariant="normal">S</mml:mi><mml:mn>8</mml:mn></mml:mrow></mml:math>. Physical Review B, 2016, 94, .	3.2	30
33	Raman Scattering: From Structural Biology to Medical Applications. Crystals, 2020, 10, 38.	2.2	29
34	Raman spectroscopic study of amorphous and crystalline hydrocarbons from soils, peats and lignite. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 2390-2398.	3.9	26
35	Lattice dynamics ofCaC6by Raman spectroscopy. Physical Review B, 2007, 76, .	3.2	25
36	Biophysical Cancer Transformation Pathway. Electromagnetic Biology and Medicine, 2009, 28, 105-123.	1.4	24

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37	The effect of Li-substitution on the M-phases of AgNbO3. Journal of Applied Physics, 2012, 111, .	2.5	24
38	Structural phase transitions in Ti-doped Bi1-xNdxFeO3 ceramics. Journal of Applied Physics, 2012, 111, .	2.5	22
39	Mitochondrial Dysfunction and Disturbed Coherence: Gate to Cancer. Pharmaceuticals, 2015, 8, 675-695.	3.8	21
40	Vibrational spectroscopy of LaBSiO5 glass and glassâ€“crystal composites. Journal of Non-Crystalline Solids, 2001, 290, 224-230.	3.1	20
41	Pb2MnTeO6 Double Perovskite: An Antipolar Anti-ferromagnet. Inorganic Chemistry, 2016, 55, 4320-4329.	4.0	20
42	Influence of laminar flow on preorientation of coal tar pitch structural units: Raman microspectroscopic study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2331-2340.	3.9	19
43	EFFECTS OF SINUSOIDAL MAGNETIC FIELD ON ADHERENCE INHIBITION OF LEUKOCYTES. Electromagnetic Biology and Medicine, 2001, 20, 397-413.	0.4	17
44	Cell-Mediated Immunity in Cervical Cancer Evolution. Electromagnetic Biology and Medicine, 2009, 28, 1-14.	1.4	16
45	Ferroelectric and Incipient Ferroelectric Properties of a Novel Sr9â^'xPbxCe2Ti2O36(x = 0â^'9) Ceramic System. Chemistry of Materials, 2009, 21, 811-819.	6.7	16
46	Targeting Mitochondria for Cancer Treatment â€“ Two Types of Mitochondrial Dysfunction. Prague Medical Report, 2014, 115, 104-119.	0.8	16
47	Infrared and raman spectroscopy on various PLZT ceramics. Ferroelectrics, 1996, 186, 115-118.	0.6	15
48	Polarized Raman spectroscopy of LiBC:â€ƒPossible evidence for lower crystal symmetry. Physical Review B, 2003, 67, .	3.2	14
49	Anodic Deposition of Enantiopure Hexahelicene Layers. ChemElectroChem, 2018, 5, 2080-2088.	3.4	14
50	Vibrational properties of hexagonal LiBC: Infrared and Raman spectroscopy. Physical Review B, 2003, 68, .	3.2	13
51	Mitochondrial Metabolism â€“ Neglected Link of Cancer Transformation and Treatment. Prague Medical Report, 2012, 113, 81-94.	0.8	13
52	Biophysical aspects of cancer--electromagnetic mechanism. Indian Journal of Experimental Biology, 2008, 46, 310-21.	0.0	13
53	Structural and optical characterization of Ba0.8Sr0.2TiO3 PLD deposited films. Optical Materials, 2008, 30, 1017-1022.	3.6	12
54	Synthesis and characterization of Bi1â^'xNdxFeO3 thin films deposited using a high throughput physical vapour deposition technique. Thin Solid Films, 2013, 531, 56-60.	1.8	12

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55	Soft-mode spectroscopy of BaTiO3 thin films. Journal of the European Ceramic Society, 2005, 25, 3063-3067.	5.7	11
56	Optical and vibrational properties of (ZnO)k In2O3 natural superlattice nanostructures. Journal of Applied Physics, 2016, 119, .	2.5	11
57	Redox and optically active carbohelicene layers prepared by potentiodynamic polymerization. Electrochemistry Communications, 2020, 113, 106689.	4.7	11
58	Dielectric response of antiferroelectric PLZT 2/95/5 ceramics in the range of 10 -1014Hz and 10 -530K. Ferroelectrics, 1999, 223, 247-254.	0.6	10
59	Effects of sinusoidal magnetic field on adherence inhibition of leucocytes: preliminary results. Bioelectrochemistry, 1999, 48, 317-319.	1.0	10
60	Evaluation of Raman spectroscopy to detect fullerenes in geological materials. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 2364-2367.	3.9	10
61	Effects of Magnetic Field 0.1 and 0.05 mT on Leukocyte Adherence Inhibition. Electromagnetic Biology and Medicine, 2005, 24, 283-292.	1.4	10
62	Warburg effectâ€"damping of electromagnetic oscillations. Electromagnetic Biology and Medicine, 2017, 36, 270-278.	1.4	10
63	Temperature dependence of the optical energy gap of CdSSe nanocrystals in glass. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 104, 54-57.	3.5	9
64	Microstructural studies and electrical properties of Mg-doped SrTiO3 thin films. Acta Materialia, 2007, 55, 4947-4954.	7.9	9
65	High throughput synthesis and characterization of the PbnNb2O5+n (0.5<n<4.1) system on a single chip. Acta Materialia, 2011, 59, 2201-2209.	7.9	9
66	Contrasting magnetism in dilute and supersaturated cobaltâ€"fullerene mixture films. Journal Physics D: Applied Physics, 2015, 48, 335002.	2.8	9
67	Far infrared and Raman spectroscopy of ferroelectric soft mode in SrTiO3 thin films and ceramics. Integrated Ferroelectrics, 2001, 32, 11-20.	0.7	8
68	A probabilistic validation algorithm for Web users' clusters. , 0, , .		8
69	Dielectric permittivity in weakly concentrated SrTiO3:Mn crystals and ceramics. Journal of Physics: Conference Series, 2007, 93, 012017.	0.4	8
70	Combined piezoresponse force microscopy and Raman scattering investigation of domain boundaries in BiFeO3 ceramics. Phase Transitions, 2016, 89, 746-751.	1.3	8
71	Broad-band dielectric response of 0.5Ba(Ti_{0.8}Zr_{0.2})O₃â€"0.5(Ba_{0.7}Ca_{0.3})TiO₃ piezocera soft and central mode behaviour. Phase Transitions, 2016, 89, 785-793.	1.3	8
72	Observation of dielectric universalities in albumin, cytochrome C and Shewanella oneidensis MR-1 extracellular matrix. Scientific Reports, 2017, 7, 15731.	3.3	8

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73	Raman spectra of DRADP-50 dipolar glass. Journal of Physics Condensed Matter, 1995, 7, 683-695.	1.8	7
74	DEPOSITION OF NANOCRYSTALLINE AND MICROCRYSTALLINE BaXSr1-XTiO3 BY MEANS OF PULSE MODULATED LOW PRESSURE PLASMA JET SYSTEM. Integrated Ferroelectrics, 2006, 81, 227-237.	0.7	7
75	Diseases caused by defects of energy level and loss of coherence in living cells. Electromagnetic Biology and Medicine, 2015, 34, 151-155.	1.4	7
76	Phase evolution in mixture of cobalt and fullerene deposited from vapor. Carbon, 2016, 103, 425-435.	10.3	7
77	Potentialâ€Driven On/Off Switch Strategy for the Electrosynthesis of [7]Heliceneâ€Derived Polymers. ChemElectroChem, 2017, 4, 3047-3052.	3.4	7
78	Far-Infrared and Raman Spectroscopy of BaTiO3Thin Films. Ferroelectrics, 2004, 303, 173-175.	0.6	6
79	Optically-induced darkening and crystallization in amorphous Agâ€“Sbâ€“S films. Journal of Non-Crystalline Solids, 2005, 351, 3556-3561.	3.1	6
80	CANCER â€" PATHOLOGICAL BREAKDOWN OF COHERENT ENERGY STATES. Biophysical Reviews and Letters, 2014, 09, 115-133.	0.8	6
81	Efficient green emission from edge states in graphene perforated by nitrogen plasma treatment. 2D Materials, 2019, 6, 045021.	4.4	6
82	Generation of Electromagnetic Field by Microtubules. International Journal of Molecular Sciences, 2021, 22, 8215.	4.1	6
83	Effects of Sinusoidal 0.5 mT Magnetic Field on Leukocyte Adherence Inhibition. Electromagnetic Biology and Medicine, 2004, 23, 81-96.	1.4	5
84	Energy parasites trigger oncogene mutation. International Journal of Radiation Biology, 2016, 92, 577-582.	1.8	5
85	Nano-Phased Crystallisation of Ferroelectrics from Glasses in the K2O-TiO2-P2O5 and K2O-Nb2O5-SiO2 Systems. Integrated Ferroelectrics, 2004, 61, 249-253.	0.7	4
86	Optically induced crystallization in amorphous Agx(Sb0.33S0.67)100â^'x films. Journal of Non-Crystalline Solids, 2006, 352, 578-583.	3.1	4
87	Phase transitions in LixAg1â^'x(Nb0.5Ta0.5)O3 solid solutions. Journal of Applied Physics, 2010, 108, 064117.	2.5	4
88	Tuneable interplay of plasmonic and molecular excitations in self-assembled silver - fullerene nanocomposites. Carbon, 2021, 184, 34-42.	10.3	4
89	Far-infrared spectroscopy of the K1â^'x(NH4)xI orientational glass. Physica B: Condensed Matter, 1998, 244, 172-179.	2.7	3
90	Dynamics of sorption columns in dewatering of bioethanol using zeolites. Studies in Surface Science and Catalysis, 2002, 142, 1663-1670.	1.5	3

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91	The negative phonon confinement effect in nanoscopic sodium nitrite. Nanotechnology, 2009, 20, 395706.	2.6	3
92	Terahertz-infrared spectroscopy of overdoped manganites La1â˜'Ca MnO3. Physica B: Condensed Matter, 2015, 460, 199-201.	2.7	3
93	Decoupling of epitaxial graphene via gold intercalation probed by dispersive Raman spectroscopy. Journal of Applied Physics, 2015, 117, 183103.	2.5	3
94	Structure assembly regularities in vapour-deposited goldâ€“fullerene mixture films. Nanoscale Advances, 2020, 2, 1542-1550.	4.6	3
95	SoSIReČR - IT professional social network. , 2011, , .		2
96	Terahertzâ€“infrared electrodynamics of overdoped manganites La_{1â€“x}Ca_xMnO₃. Phase Transitions, 2014, 87, 1050-1059.	1.3	2
97	Polarized Raman scattering study of PSN single crystals and epitaxial thin films. Journal of Advanced Dielectrics, 2015, 05, 1550013.	2.4	2
98	Cancer Development and Damped Electromagnetic Activity. Applied Sciences (Switzerland), 2020, 10, 1826.	2.5	2
99	Biophysical Pathology in Cancer Transformation. Journal of Clinical & Experimental Oncology, 2014, s1, .	0.1	2
100	Relation between microwave and submillimetre losses in selected ceramic materials. , 1996, , .		1
101	Low Pressure RF Plasma Jet Sputtering Technique Applied to Ferroelectric Films: Ba_{1-x} Sr_xTiO₃. Materials Science Forum, 2006, 514-516, 165-169.	0.3	1
102	Extrinsic permittivity in domain engineered rhombohedral BaTiO3 monocrystal. Journal of Applied Physics, 2018, 124, 024101.	2.5	1
103	Relevance of Rabi splitting effect for tunable enhancement of Raman scattering in self-assembled silver â€“ Fullerene nanocomposite films. Carbon, 2022, 196, 988-1000.	10.3	1
104	FrÃ¶hlich coherent states: Implications for thermal sensitivity of cells. European Physical Journal D, 1985, 35, 176-182.	0.4	0
105	Electromagnetic communication between cells through tunneling nanotubes. International Journal of Microwave and Wireless Technologies, 2020, 12, 831-838.	1.9	0