

Jan Pokorný^{1/2}

List of Publications by Year in descending order

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105
papers

3,688
citations

159585

30
h-index

133252

59
g-index

107
all docs

107
docs citations

107
times ranked

4190
citing authors

#	ARTICLE	IF	CITATIONS
1	Relevance of Rabi splitting effect for tunable enhancement of Raman scattering in self-assembled silver " Fullerene nanocomposite films. Carbon, 2022, 196, 988-1000.	10.3	1
2	Generation of Electromagnetic Field by Microtubules. International Journal of Molecular Sciences, 2021, 22, 8215.	4.1	6
3	Tuneable interplay of plasmonic and molecular excitations in self-assembled silver - fullerene nanocomposites. Carbon, 2021, 184, 34-42.	10.3	4
4	Electromagnetic communication between cells through tunneling nanotubes. International Journal of Microwave and Wireless Technologies, 2020, 12, 831-838.	1.9	0
5	Structure assembly regularities in vapour-deposited gold"fullerene mixture films. Nanoscale Advances, 2020, 2, 1542-1550.	4.6	3
6	Cancer Development and Damped Electromagnetic Activity. Applied Sciences (Switzerland), 2020, 10, 1826.	2.5	2
7	Redox and optically active carbohelicene layers prepared by potentiodynamic polymerization. Electrochemistry Communications, 2020, 113, 106689.	4.7	11
8	Raman Scattering: From Structural Biology to Medical Applications. Crystals, 2020, 10, 38.	2.2	29
9	Efficient green emission from edge states in graphene perforated by nitrogen plasma treatment. 2D Materials, 2019, 6, 045021.	4.4	6
10	Anodic Deposition of Enantiopure Hexahelicene Layers. ChemElectroChem, 2018, 5, 2080-2088.	3.4	14
11	Extrinsic permittivity in domain engineered rhombohedral BaTiO3 monocrystal. Journal of Applied Physics, 2018, 124, 024101.	2.5	1
12	Warburg effect" damping of electromagnetic oscillations. Electromagnetic Biology and Medicine, 2017, 36, 270-278.	1.4	10
13	Potential"Driven On/Off Switch Strategy for the Electrosynthesis of [7]Helicene"Derived Polymers. ChemElectroChem, 2017, 4, 3047-3052.	3.4	7
14	Observation of dielectric universalities in albumin, cytochrome C and Shewanella oneidensis MR-1 extracellular matrix. Scientific Reports, 2017, 7, 15731.	3.3	8
15	Optical and vibrational properties of (ZnO) In2O3 natural superlattice nanostructures. Journal of Applied Physics, 2016, 119, .	2.5	11
16	Pb2MnTeO6 Double Perovskite: An Antipolar Anti-ferromagnet. Inorganic Chemistry, 2016, 55, 4320-4329.	4.0	20
17	Phase evolution in mixture of cobalt and fullerene deposited from vapor. Carbon, 2016, 103, 425-435.	10.3	7
18	Lattice modes and the Jahn-Teller ferroelectric transition of GaV_4S_8 . Physical Review B, 2016, 94, .	3.2	30

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19	Energy parasites trigger oncogene mutation. International Journal of Radiation Biology, 2016, 92, 577-582.	1.8	5
20	Combined piezoresponse force microscopy and Raman scattering investigation of domain boundaries in BiFeO ₃ ceramics. Phase Transitions, 2016, 89, 746-751.	1.3	8
21	Broad-band dielectric response of 0.5Ba(Ti _{0.8} Zr _{0.2})O ₃ ·0.5(Ba _{0.7} Ca _{0.3})TiO ₃ piezoceramics: soft and central mode behaviour. Phase Transitions, 2016, 89, 785-793.		
22	Polarized Raman scattering study of PSN single crystals and epitaxial thin films. Journal of Advanced Dielectrics, 2015, 05, 1550013.	2.4	2
23	Mitochondrial Dysfunction and Disturbed Coherence: Gate to Cancer. Pharmaceuticals, 2015, 8, 675-695.	3.8	21
24	Terahertz-infrared spectroscopy of overdoped manganites La ^{1-x} Ca _x MnO ₃ . Physica B: Condensed Matter, 2015, 460, 199-201.	2.7	3
25	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
26	Decoupling of epitaxial graphene via gold intercalation probed by dispersive Raman spectroscopy. Journal of Applied Physics, 2015, 117, 183103.	2.5	3
27	Contrasting magnetism in dilute and supersaturated cobalt fullerene mixture films. Journal Physics D: Applied Physics, 2015, 48, 335002.	2.8	9
28	CANCER – PATHOLOGICAL BREAKDOWN OF COHERENT ENERGY STATES. Biophysical Reviews and Letters, 2014, 09, 115-133.	0.8	6
29	Terahertz infrared electrodynamics of overdoped manganites La ^{1-x} Ca _x MnO ₃ . Phase Transitions, 2014, 87, 1050-1059.	1.3	2
30	Targeting Mitochondria for Cancer Treatment – Two Types of Mitochondrial Dysfunction. Prague Medical Report, 2014, 115, 104-119.	0.8	16
31	Biophysical Pathology in Cancer Transformation. Journal of Clinical & Experimental Oncology, 2014, 1, .	0.1	2
32	Postulates on electromagnetic activity in biological systems and cancer. Integrative Biology (United Kingdom), 2013, 4, 44.	1.3	44
33	Synthesis and characterization of Bi _{1-x} Nd _x FeO ₃ thin films deposited using a high throughput physical vapour deposition technique. Thin Solid Films, 2013, 531, 56-60.	1.8	12
34	Relaxor Characteristics of the Phase Transformation in (1-x)BaTiO ₃ ·xBiFeO ₃ Perovskite Ceramics. Journal of the American Ceramic Society, 2013, 96, 3176-3182.	2.8	45
35	Relaxor Characteristics of the Phase Transformation in (1-x)BaTiO ₃ ·xBiFeO ₃ Perovskite Ceramics. Journal of the American Ceramic Society, 2013, 96, 3176-3182.	3.2	97
36	The effect of Li-substitution on the M-phases of AgNbO ₃ . Journal of Applied Physics, 2012, 111, .	2.5	24

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37	Structural phase transitions in Ti-doped Bi _{1-x} Nd _x FeO ₃ ceramics. Journal of Applied Physics, 2012, 111, .	2.5	22
38	Electromechanical strain in Bi(Zn _{1/2} Ti _{1/2})O ₃ -(Bi _{1/2} Na _{1/2})TiO ₃ -(Bi _{1/2} K _{1/2})TiO ₃ solid solutions. Journal of Applied Physics, 2012, 111, .	2.5	51
39	A High-Temperature Capacitor Dielectric Based on K _{0.5} Na _{0.5} NbO ₃ and Bi _{1/2} Na _{1/2} TiO ₃ . Journal of the American Ceramic Society, 2012, 95, 3519-3524.	3.2	121
40	Effects of sintering temperature on the internal barrier layer capacitor (IBLC) structure in CaCu ₃ Ti ₄ O ₁₂ (CCTO) ceramics. Journal of the European Ceramic Society, 2012, 32, 3313-3323.	5.7	277
41	Mitochondrial Metabolism – Neglected Link of Cancer Transformation and Treatment. Prague Medical Report, 2012, 113, 81-94.	0.8	13
42	Use of Raman spectroscopy to determine the site occupancy of dopants in BaTiO ₃ . Journal of Applied Physics, 2011, 109, .	2.5	209
43	Angular dispersion of oblique phonon modes in BiFeO ₃ micro-Raman scattering. Physical Review B, 2011, 83, .	3.2	123
44	High throughput synthesis and characterization of the PbnNb ₂ O _{5+n} (0.5<n<4.1) system on a single chip. Acta Materialia, 2011, 59, 2201-2209.	7.9	9
45	SoSIReČR - IT professional social network. , 2011, , .		2
46	Polymorphism, Phase Transitions, and Thermal Stability of l-Pyroglutamic Acid. Crystal Growth and Design, 2010, 10, 3141-3148.	3.0	46
47	Phase transitions in Li _x Ag _{1-x} (Nb _{0.5} Ta _{0.5})O ₃ solid solutions. Journal of Applied Physics, 2010, 108, 064117.	2.5	4
48	Displacive Ordering Transitions in Perovskite-Like AgNb _{1/2} Ta _{1/2} O ₃ . Chemistry of Materials, 2010, 22, 4987-4995.	6.7	63
49	Polar order and diffuse scatter in Ba(Ti _{1-x} Zr _x)O ₃ ceramics. Journal of Applied Physics, 2009, 106, .	2.5	95
50	Biophysical Cancer Transformation Pathway. Electromagnetic Biology and Medicine, 2009, 28, 105-123.	1.4	24
51	Crystal chemistry and domain structure of rare-earth doped BiFeO ₃ ceramics. Journal of Materials Science, 2009, 44, 5102-5112.	3.7	290
52	The negative phonon confinement effect in nanoscopic sodium nitrite. Nanotechnology, 2009, 20, 395706.	2.6	3
53	Cell-Mediated Immunity in Cervical Cancer Evolution. Electromagnetic Biology and Medicine, 2009, 28, 1-14.	1.4	16
54	Ferroelectric and Incipient Ferroelectric Properties of a Novel Sr _{9-x} PbxCe ₂ Ti ₂ O ₃₆ (x = 0-9) Ceramic System. Chemistry of Materials, 2009, 21, 811-819.	6.7	16

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55	Structural and optical characterization of Ba _{0.8} Sr _{0.2} TiO ₃ PLD deposited films. <i>Optical Materials</i> , 2008, 30, 1017-1022.	3.6	12
56	Dielectric properties of Mn doped SrTiO ₃ . <i>Journal of Physics Condensed Matter</i> , 2008, 20, 095221.	1.8	41
57	Biophysical aspects of cancer–electromagnetic mechanism. <i>Indian Journal of Experimental Biology</i> , 2008, 46, 310-21.	0.0	13
58	Lattice dynamics of CaC ₆ by Raman spectroscopy. <i>Physical Review B</i> , 2007, 76, .	3.2	25
59	Mechanisms of the Effect of Dopants and P(O ₂) on the Improper Ferroelastic Phase Transition in SrTiO ₃ . <i>Chemistry of Materials</i> , 2007, 19, 6471-6477.	6.7	31
60	Dielectric permittivity in weakly concentrated SrTiO ₃ :Mn crystals and ceramics. <i>Journal of Physics: Conference Series</i> , 2007, 93, 012017.	0.4	8
61	Microstructural studies and electrical properties of Mg-doped SrTiO ₃ thin films. <i>Acta Materialia</i> , 2007, 55, 4947-4954.	7.9	9
62	Optically induced crystallization in amorphous Ag _x (Sb _{0.33} S _{0.67}) ₁₀₀ ˆx films. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 578-583.	3.1	4
63	Grain size and grain boundary-related effects on the properties of nanocrystalline barium titanate ceramics. <i>Journal of the European Ceramic Society</i> , 2006, 26, 2889-2898.	5.7	190
64	Low Pressure RF Plasma Jet Sputtering Technique Applied to Ferroelectric Films: Ba _{1-x} Sr _x TiO ₃ . <i>Materials Science Forum</i> , 2006, 514-516, 165-169.	0.3	1
65	DEPOSITION OF NANOCRYSTALLINE AND MICROCRYSTALLINE Ba _x Sr _{1-x} TiO ₃ BY MEANS OF PULSE MODULATED LOW PRESSURE PLASMA JET SYSTEM. <i>Integrated Ferroelectrics</i> , 2006, 81, 227-237.	0.7	7
66	Evaluation of Raman spectroscopy to detect fullerenes in geological materials. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 2364-2367.	3.9	10
67	Raman spectroscopic study of amorphous and crystalline hydrocarbons from soils, peats and lignite. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 2390-2398.	3.9	26
68	Soft-mode spectroscopy of BaTiO ₃ thin films. <i>Journal of the European Ceramic Society</i> , 2005, 25, 3063-3067.	5.7	11
69	Effects of Magnetic Field 0.1 and 0.05 mT on Leukocyte Adherence Inhibition. <i>Electromagnetic Biology and Medicine</i> , 2005, 24, 283-292.	1.4	10
70	Endogenous Electric Field and Organization of Living Matter. <i>Electromagnetic Biology and Medicine</i> , 2005, 24, 185-197.	1.4	37
71	Optically-induced darkening and crystallization in amorphous Ag _x Sb _{1-x} S films. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 3556-3561.	3.1	6
72	Lattice dynamics and dielectric response of Mg-doped SrTiO ₃ ceramics in a wide frequency range. <i>Journal of Applied Physics</i> , 2005, 97, 044104.	2.5	39

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73	Broad-band dielectric spectroscopy of SrTiO ₃ :Bicermics. <i>Physical Review B</i> , 2004, 69, .	3.2	33
74	Excitation of vibrations in microtubules in living cells. <i>Bioelectrochemistry</i> , 2004, 63, 321-326.	4.6	97
75	Effects of Sinusoidal 0.5 mT Magnetic Field on Leukocyte Adherence Inhibition. <i>Electromagnetic Biology and Medicine</i> , 2004, 23, 81-96.	1.4	5
76	Far-Infrared and Raman Spectroscopy of BaTiO ₃ Thin Films. <i>Ferroelectrics</i> , 2004, 303, 173-175.	0.6	6
77	Nano-Phased Crystallisation of Ferroelectrics from Glasses in the K ₂ O-TiO ₂ -P ₂ O ₅ and K ₂ O-Nb ₂ O ₅ -SiO ₂ Systems. <i>Integrated Ferroelectrics</i> , 2004, 61, 249-253.	0.7	4
78	Temperature dependence of the optical energy gap of CdSSe nanocrystals in glass. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 104, 54-57.	3.5	9
79	Influence of laminar flow on preorientation of coal tar pitch structural units: Raman microspectroscopic study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 2331-2340.	3.9	19
80	Raman spectroscopy of carbon and solid bitumens in sedimentary and metamorphic rocks. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 2341-2352.	3.9	171
81	Composition dependence of the lattice vibrations in Sr _{n+1} Ti _n O _{3n+1} Ruddlesden-Popper homologous series. <i>Journal of the European Ceramic Society</i> , 2003, 23, 2639-2645.	5.7	55
82	Viscous Effects on Polar Vibrations in Microtubules. <i>Electromagnetic Biology and Medicine</i> , 2003, 22, 15-29.	1.4	34
83	Vibrational properties of hexagonal LiBC: Infrared and Raman spectroscopy. <i>Physical Review B</i> , 2003, 68, .	3.2	13
84	Polarized Raman spectroscopy of LiBC: Possible evidence for lower crystal symmetry. <i>Physical Review B</i> , 2003, 67, .	3.2	14
85	Ferroelastic phase in SrBi ₂ Ta ₂ O ₉ and study of the ferroelectric phase-transition dynamics. <i>Applied Physics Letters</i> , 2002, 81, 1056-1058.	3.3	52
86	Origin of soft-mode stiffening and reduced dielectric response in SrTiO ₃ thin films. <i>Physical Review B</i> , 2002, 66, .	3.2	114
87	Dynamics of sorption columns in dewatering of bioethanol using zeolites. <i>Studies in Surface Science and Catalysis</i> , 2002, 142, 1663-1670.	1.5	3
88	Vibrational spectroscopy of LaBSiO ₅ glass and glass-crystal composites. <i>Journal of Non-Crystalline Solids</i> , 2001, 290, 224-230.	3.1	20
89	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
90	ELECTROMAGNETIC ACTIVITY OF YEAST CELLS IN THE M PHASE. <i>Electromagnetic Biology and Medicine</i> , 2001, 20, 371-396.	0.4	67

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91	EFFECTS OF SINUSOIDAL MAGNETIC FIELD ON ADHERENCE INHIBITION OF LEUKOCYTES. Electromagnetic Biology and Medicine, 2001, 20, 397-413.	0.4	17
92	Phonons in MgB ₂ by polarized Raman scattering on single crystals. Physical Review B, 2001, 64, .	3.2	72
93	Dielectric, infrared, and Raman response of undoped SrTiO ₃ ceramics: Evidence of polar grain boundaries. Physical Review B, 2001, 64, .	3.2	248
94	Dielectric response of antiferroelectric PLZT 2/95/5 ceramics in the range of 10 ⁻¹⁰ Hz and 10 ⁻⁵ 300K. Ferroelectrics, 1999, 223, 247-254.	0.6	10
95	Conditions for coherent vibrations in the cytoskeleton. Bioelectrochemistry, 1999, 48, 267-271.	1.0	45
96	Effects of sinusoidal magnetic field on adherence inhibition of leucocytes: preliminary results. Bioelectrochemistry, 1999, 48, 317-319.	1.0	10
97	Infrared and microwave dielectric response of the disordered antiferroelectric Ag(Ta,Nb)O ₃ system. Ferroelectrics, 1999, 223, 235-246.	0.6	52
98	Far-infrared spectroscopy of the K _{1-x} (NH ₄) _x orientational glass. Physica B: Condensed Matter, 1998, 244, 172-179.	2.7	3
99	Vibrations in microtubules. Journal of Biological Physics, 1997, 23, 171-179.	1.5	70
100	Relation between microwave and submillimetre losses in selected ceramic materials. , 1996, , .		1
101	Infrared and raman spectroscopy on various PLZT ceramics. Ferroelectrics, 1996, 186, 115-118.	0.6	15
102	Raman spectroscopy of the zone centre improper ferroelastic transition in ordered complex perovskite ceramic. Solid State Communications, 1995, 94, 899-903.	1.9	38
103	Raman spectra of DRADP-50 dipolar glass. Journal of Physics Condensed Matter, 1995, 7, 683-695.	1.8	7
104	Fröhlich coherent states: Implications for thermal sensitivity of cells. European Physical Journal D, 1985, 35, 176-182.	0.4	0
105	A probabilistic validation algorithm for Web users' clusters. , 0, , .		8