Viktor G Hadjiev

List of Publications by Year
in descending order

133 papers	5,306 citations	126907 33 h-index	88630 70 g-index
134 all docs	134 docs citations	134 times ranked	8479 citing authors

#	Article	IF	Citations
1	Precrystallization solute assemblies and crystal symmetry. Faraday Discussions, 2022, 235, 307-321.	3.2	2
2	Integration of Highly Luminescent Lead Halide Perovskite Nanocrystals on Transparent Lead Halide Nanowire Waveguides through Morphological Transformation and Spontaneous Growth in Water. Small, 2022, 18, e2105009.	10.0	11
3	Bandgap tuning of pseudoboehmite nanoparticles induced by quantum confinement. Ceramics International, 2022, 48, 21893-21897.	4.8	2
4	Ultraweak electron-phonon coupling strength in cubic boron arsenide unveiled by ultrafast dynamics. Physical Review B, 2022, 105, .	3.2	8
5	Photoluminescence and Raman Spectra of One-Dimensional Lead-free Perovskite CsCu₂I₃ Single-Crystal Wires. Journal of Physical Chemistry Letters, 2022, 13, 6447-6454.	4.6	13
6	How to Identify the Crystal Growth Unit. Israel Journal of Chemistry, 2021, 61, 818-827.	2.3	5
7	Unusual catalytic activity of TiO2â€“CoTiO3 under 1064 nm pulsed laser illumination. Catalysis Today, 2020, 349, 3-9.	4.4	10
8	Electron Microscopy of Perokskite Phase Distribution on Light Emitting Edges. Microscopy and Microanalysis, 2020, 26, 2346-2347.	0.4	0
9	Bacteriostatic effect of CoO-TiO2 on Listeria monocytogenes by the presence of the co-catalytic CoO nanoparticles. Journal of Environmental Chemical Engineering, 2020, 8, 104259.	6.7	6
10	Photoluminescence mapping and time-domain thermo-photoluminescence for rapid imaging and measurement of thermal conductivity of boron arsenide. Materials Today Physics, 2020, 13, 100194.	6.0	16
11	Spontaneous Formation of 2D/3D Heterostructures on the Edges of 2D Ruddlesdenâ€“Popper Hybrid Perovskite Crystals. Chemistry of Materials, 2020, 32, 5009-5015.	6.7	45
12	New Way to Synthesize Robust and Porous Ni1â€“xFex Layered Double Hydroxide for Efficient Electrocatalytic Oxygen Evolution. ACS Applied Materials & Interfaces, 2019, 11, 32909-32916.	8.0	16
13	Low Dose TEM on the Degradation of the MAPbI3 Perovskite. Microscopy and Microanalysis, 2019, 25, 1716-1717.	0.4	0
14	Enhanced elastic behavior of all-carbon composites reinforced by in-situ synthesized morphed graphene. Carbon, 2019, 153, 657-662.	10.3	12
15	Revealing the Origin of Luminescence Center in 0D Cs₄PbBr₆ Perovskite. Chemistry of Materials, 2019, 31, 9098-9104.	6.7	93
16	Extrinsic Green Photoluminescence from the Edges of 2D Cesium Lead Halides. Advanced Materials, 2019, 31, e1902492.	21.0	75
17	Origin of Luminescent Centers and Edge States in Low-Dimensional Lead Halide Perovskites: Controversies, Challenges and Instructive Approaches. Nano-Micro Letters, 2019, 11, 26.	27.0	42
18	Boron isotope effect on the thermal conductivity of boron arsenide single crystals. Materials Today Physics, 2019, 11, 100169.	6.0	14

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19	Understanding the Origin of Green Photoluminescence in Low-dimensional Lead Halide Perovskites. , 2019, , .		0
20	TEM Characterization of the Edges of CsPb2Br5 Perovskite Crystals. Microscopy and Microanalysis, 2018, 24, 1984-1985.	0.4	0
21	Phonon fingerprints of CsPb₂Br₅. Journal of Physics Condensed Matter, 2018, 30, 405703.	1.8	12
22	Effective Reinforcement of Carbon-Carbon Composites Using Morped Graphene. Microscopy and Microanalysis, 2018, 24, 138-139.	0.4	0
23	Physisorbed versus chemisorbed oxygen effect on thermoelectric properties of highly organized single walled carbon nanotube nanofilms. RSC Advances, 2017, 7, 14078-14087.	3.6	16
24	Gold nanoparticle SERS substrates sustainable at extremely high temperatures. Journal of Materials Chemistry C, 2017, 5, 4959-4966.	5.5	20
25	Electron Microscopy of Morphed Graphene Nanostructures Synthesized by Mechanical Milling. Microscopy and Microanalysis, 2016, 22, 1250-1251.	0.4	4
26	HRTEM low dose: the unfold of the morphed graphene, from amorphous carbon to morphed graphenes. Advanced Structural and Chemical Imaging, 2016, 2, 10.	4.0	33
27	Interaction of Organic Cation with Water Molecule in Perovskite MAPbI₃: From Dynamic Orientational Disorder to Hydrogen Bonding. Chemistry of Materials, 2016, 28, 7385-7393.	6.7	169
28	Identification of Cobalt Oxides with Raman Scattering and Fourier Transform Infrared Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 4511-4516.	3.1	214
29	Morphed graphene nanostructures: Experimental evidence for existence. Carbon, 2016, 102, 288-296.	10.3	37
30	Phonons in ultra-high melting temperature Ta 2 C. Europhysics Letters, 2015, 111, 68001.	2.0	3
31	Chemical Vapor Deposition of Thin Crystals of Layered Semiconductor SnS₂ for Fast Photodetection Application. Nano Letters, 2015, 15, 506-513.	9.1	430
32	High-toughness/low-friction ductile epoxy coatings reinforced with carbon nanostructures. Polymer Testing, 2015, 47, 113-119.	4.8	24
33	Improved mechanical properties of an epoxy glassâ€“fiber composite reinforced with surface organomodified nanoclays. Composites Part B: Engineering, 2015, 72, 175-182.	12.0	117
34	Novel layered two-dimensional semiconductors as the building blocks for nano-electronic/photonic systems. Proceedings of SPIE, 2014, , .	0.8	0
35	Anomalous vibrational properties of cubic boron arsenide. Physical Review B, 2014, 89, .	3.2	32
36	Four-fold Raman enhancement of 2D band in twisted bilayer graphene: evidence for a doubly degenerate Dirac band and quantum interference. Nanotechnology, 2014, 25, 335201.	2.6	18

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37	Lattice dynamics and spin-phonon coupling in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CaMn</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>: A Raman study. Physical Review B, 2014, 89, .	3.2	6
38	Raman study of phonons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ca</mml:mi><mml:msub><mml:mi>Mn</mml:mi><mml:mathvariant="normal">O</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:mrow></mml:math>: Effects of structural modulation and structural transition. Physical Review B, 2014, 89, .	3.2	12
39	Porous media reinforced with carbon soots. Materials Chemistry and Physics, 2013, 140, 651-658.	4.0	12
40	Raman and infrared spectra of brookite (TiO2): Experiment and theory. Vibrational Spectroscopy, 2013, 64, 148-152.	2.2	98
41	Phonon probe of local strains in SnSxSe2â^'xmixed crystals. Physical Review B, 2013, 87, .	3.2	37
42	Field effect transistors with layered two-dimensional SnS2â^'xSex conduction channels: Effects of selenium substitution. Applied Physics Letters, 2013, 103, .	3.3	67
43	Resonance Raman spectroscopy of G-line and folded phonons in twisted bilayer graphene with large rotation angles. Applied Physics Letters, 2013, 103, .	3.3	46
44	Oriented Single-Walled Carbon Nanotubesâ€"Poly(ethylene oxide) Nanocomposites. Macromolecules, 2012, 45, 9357-9363.	4.8	19
45	AB-Stacked Multilayer Graphene Synthesized via Chemical Vapor Deposition: A Characterization by Hot Carrier Transport. ACS Nano, 2012, 6, 1142-1148.	14.6	13
46	Multi-functional fullerene soot/alumina composites with improved toughness and electrical conductivity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 558, 13-20.	5.6	22
47	Polymer Precursorâ€Based Preparation of Carbon Nanotubeâ€"Silicon Carbide Nanocomposites. Journal of the American Ceramic Society, 2012, 95, 328-337.	3.8	9
48	Fast Solâ€"Gel Preparation of Silicon Carbideâ€"Silicon Oxycarbide Nanocomposites. Journal of the American Ceramic Society, 2011, 94, 4444-4452.	3.8	14
49	Probing phonon emission via hot carrier transport in suspended graphitic multilayers. Solid State Communications, 2011, 151, 1645-1649.	1.9	2
50	A strategy for improving mechanical properties of a fiber reinforced epoxy composite using functionalized carbon nanotubes. Composites Science and Technology, 2011, 71, 1089-1097.	7.8	172
51	Tunable magnetoresistance behavior in suspended graphitic multilayers through ion implantation. Physical Review B, 2011, 83, .	3.2	5
52	Electronic band structure of SrCu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>and KCu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>	3.2	4
53	Phonon and magnon scattering of antiferromagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Bi</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2010, 81, .	3.2	107
54	Raman microscopy of residual strains in carbon nanotube/epoxy composites. Carbon, 2010, 48, 1750-1756.	10.3	42

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55	Parallel and orthogonalE-field alignment of single-walled carbon nanotubes by ac dielectrophoresis. Nanotechnology, 2009, 20, 035201.	2.6	26
56	Bâ€staged epoxy/singleâ€walled carbon nanotube nanocomposite thin films for composite reinforcement. Journal of Applied Polymer Science, 2009, 112, 290-298.	2.6	34
57	Phonons in the cubic phase of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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73	Optical properties of high-dielectric-constant CaCu3Ti4O12 films. Physica Status Solidi A, 2003, 195, 453-458.	1.7	47
74	Role of Jahn-Teller disorder in Raman scattering of mixed-valence manganites. Physical Review B, 2003, 67, .	3.2	113
75	Comment on â€œAnomalously Broad Raman Scattering Spectrum due to Two-Magnon Excitation in HexagonalYMnO3â€. Physical Review Letters, 2003, 90, 069701.	7.8	5
76	Fast characterization of magnetic impurities in single-walled carbon nanotubes. Applied Physics Letters, 2003, 83, 4601-4603.	3.3	21
77	Raman spectroscopy ofCaRuO3. Physical Review B, 2002, 66, .	3.2	18
78	Raman spectroscopy ofCaCu3Ti4O12. Physical Review B, 2002, 66, .	3.2	144
79	Microtwinning of Epitaxial CaRuO3 Thin Films: A Raman Study. Physica Status Solidi A, 2002, 191, R7-R9.	1.7	0
80	Raman scattering test of single-wall carbon nanotube composites. Applied Physics Letters, 2001, 78, 3193-3195.	3.3	136
81	Production and measurements of isolated single-wall carbon nanotubes. AIP Conference Proceedings, 2001, , .	0.4	0
82	Symmetry of phonon, magnetic, and spin-phonon excitations inGdSr2RuCu2O8single crystals. Physical Review B, 2001, 64, .	3.2	14
83	Low temperature phase transition in n-pentane C60 clathrate: a Raman scattering study. Chemical Physics Letters, 2000, 326, 58-64.	2.6	4
84	Raman scattering from magnetic excitations in ruthenate-cuprates. Physica C: Superconductivity and Its Applications, 2000, 341-348, 2255-2256.	1.2	3
85	Rotation-vibrational dynamics of solidC60:A Raman study. Physical Review B, 1999, 60, 13351-13354.	3.2	10
86	Raman depolarization ratio of vibrational modes in solid C60. Solid State Communications, 1999, 112, 517-520.	1.9	18
87	Raman Scattering from Magnetic Excitations in the Ferromagnetic Superconductor RuSr2GdCu2O8??. Physica Status Solidi (B): Basic Research, 1999, 211, R5-R6.	1.5	28
88	Electronic Raman Response of Optimal and Overdoped Y1?xCaxBa2Cu3O7?? Single Crystals. Physica Status Solidi (B): Basic Research, 1999, 214, r21-r22.	1.5	1
89	Electronic Raman Scattering in Y1?xCaxBa2Cu3O7?? Single Crystals. Physica Status Solidi (B): Basic Research, 1999, 215, 477-482.	1.5	0
90	Phonon Self-Energy Effects in High-Temperature Superconductors. Physica Status Solidi (B): Basic Research, 1999, 215, 483-488.	1.5	3

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91	Raman Scattering from the Superconducting Phase: Electronic Excitations and Phonon Renormalization Effects. ACS Symposium Series, 1999, , 180-195.	0.5	0
92	Superconductivity-Induced Phonon Renormalization in (Cu,C)Ba2Ca3Cu4Oz Superconductor. Physica Status Solidi (B): Basic Research, 1998, 205, R1-R2.	1.5	7
93	Strong superconductivity-induced phonon self-energy effects inHgBa2Ca3Cu4O10+Î´. Physical Review B, 1998, 58, 1043-1050.	3.2	74
94	Comment on â€œRaman Scattering Study on Fully OxygenatedYBa2Cu3O7Single Crystals:xâˆ’yAnisotropy in the Superconductivity-Induced Effectsâ€• Physical Review Letters, 1998, 81, 2180-2180.	7.8	7
95	Anomalous phonon self-energy effects inSmBa2Cu3Oy:A Raman study. Physical Review B, 1998, 58, 14211-14214.	3.2	9
96	Influence of the crystal field on the Raman intensity of C60fullerites. Physical Review B, 1997, 56, 2495-2500.	3.2	14
97	Optical phonons probe of the SrLaAlO4 crystal structure. Journal of Alloys and Compounds, 1997, 251, 7-10.	5.5	28
98	Transformations of the locat structure of YBa2Cu3O7âˆ’Î´ due to laser annealing. Physica C: Superconductivity and Its Applications, 1997, 279, 63-69.	1.2	15
99	Strong Electron-Phonon Interactions in HgBa2Ca3Cu4O10+? Superconductor. Physica Status Solidi (B): Basic Research, 1997, 202, R7-R8.	1.5	2
100	Raman Spectroscopy of Local Structure and Reordering Processes in YBa2Cu3O7-Î´-Type Compounds. Journal of Raman Spectroscopy, 1996, 27, 333-342.	2.5	21
101	Raman Spectroscopy of Local Structure and Reordering Processes in YBa2Cu3O7-Î´-Type Compounds. Journal of Raman Spectroscopy, 1996, 27, 333-342.	2.5	3
102	Lattice Dynamics of HgBa2CuO4. , 1995, , 239-240.		0
103	Raman scattering from phonons inYNi2B2C. Physical Review B, 1994, 50, 16726-16728.	3.2	24
104	Raman scattering fromYBa2Fe3O8+Î´. Physical Review B, 1994, 50, 586-589.	3.2	16
105	Raman spectroscopy of Fe doped YBa2Cu4O8. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1181-1182.	1.2	2
106	Sr-substitution-dependent mixing of the (Ba,Sr)-Ag and Cu2-Ag phonons in NdBa2âˆ’xSrxCu3O7âˆ’Î´ (0 â‰¤) Tj ETQq0 0 0 rgBT /Overlock	1.2	3
107	Oxygen rearrangement due to laser heating and room-temperature-ageing in RBa2Cu3O7âˆ’Î´ (R = Nd, Y). Physica C: Superconductivity and Its Applications, 1994, 235-240, 1255-1256.	1.2	6
108	Infrared and raman spectra of C60Â·n-pentane clathrate crystals. Chemical Physics Letters, 1993, 202, 325-329.	2.6	20

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109	Infrared and Raman Spectra of C60 clathrates. Synthetic Metals, 1993, 56, 3021-3026.	3.9	2
110	Resonant Raman scattering of oxygen-deficientYBa2Cu3O7â^'Î´: Evidence for the coexistence of ortho-I, ortho-II, and tetragonal microstructures. Physical Review B, 1993, 47, 12341-12344.	3.2	74
111	Raman-scattering probe of oxygen ordering during room-temperature annealing ofYBa2Cu3O7â^'Î´. Physical Review B, 1993, 47, 9148-9150.	3.2	28
112	Optical Properties of C60-Diethyl Ether Clathrate Single Crystals. Springer Series in Solid-state Sciences, 1993, , 312-315.	0.3	0
113	Comment on â€˜â€˜Rotational ordering transition in single-crystalC60studied by Raman spectroscopyâ€™â€™. Physical Review Letters, 1992, 69, 1146-1146.	7.8	6
114	Raman and MÃ¶ssbauer study of the pseudo-orthorhombic-to-tetragonal phase transition in YBa2(Cu1â^'xFex)3O7â^'Î´ (0.02â©½xâ©½0.15). Physica C: Superconductivity and Its Applications, 1992, 191, 419-428.	1.2	15
115	Effect of oxygen disorder on superconductivity-induced self-energy effects in impurity-free YBa2Cu3O7â^'Î´. Solid State Communications, 1991, 80, 643-647.	1.9	51
116	Raman spectrum of the double-layer superconductor La2â^'xSrxCaCu2O6â^'Î´(0.2â©½xâ©½0.4). Physica C: Superconductivity and Its Applications, 1991, 179, 295-302.	1.2	6
117	Polarised Raman scattering from orthorhombic and tetragonal GdBa2Cu3O7â^'Î´ single crystals: New evidence of chains-to-planes charge redistribution. Physica C: Superconductivity and Its Applications, 1990, 166, 225-230.	1.2	10
118	A Raman study of the structural properties of YBa2(Cu1 â^' xFex)3Oy. Physica C: Superconductivity and Its Applications, 1990, 170, 419-426.	1.2	13
119	Raman study of hydrogenated RBa2Cu3O7â^'Î´ (R = Y, Gd). Physica C: Superconductivity and Its Applications, 1990, 171, 257-264.	1.2	15
120	Normal state charge redistribution as determined by the Raman scattering from orthorhombic and tetragonal single crystals of YBa2Cu3O7-Î´. Journal of Physics Condensed Matter, 1990, 2, 3135-3139.	1.8	8
121	Polarized Raman scattering from Bi-based HTS single crystals and its relation to the lattice dynamics of Y-123 compounds. Physica C: Superconductivity and Its Applications, 1989, 157, 495-501.	1.2	19
122	Raman study of pure and Ce doped single crystals of Nd2â^'xCexCuO4â^'y. Solid State Communications, 1989, 71, 1093-1097.	1.9	26
123	Investigations of the new high temperature superconductor BiSrCaCu2Ox. Physica C: Superconductivity and Its Applications, 1988, 153-155, 627-628.	1.2	4
124	Polarized Raman spectra of superconducting YBa2Cu3O7 single microcrystals. Solid State Communications, 1988, 66, 451-453.	1.9	20
125	Raman spectra of superconducting and impurity phases in Bi-Ca-Sr-Cu-O ceramics. Physica C: Superconductivity and Its Applications, 1988, 156, 193-196.	1.2	18
126	Polarized Raman spectra of superconducting and semiconducting YBa2Cu3Ox single crystals. Physica C: Superconductivity and Its Applications, 1988, 153-155, 290-291.	1.2	9

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127	Structural study, XPS and Raman spectra of 107 K and 114 K Tl based superconductors. Physica C: Superconductivity and Its Applications, 1988, 156, 427-433.	1.2	11
128	The Raman spectra of Co3O4. Journal of Physics C: Solid State Physics, 1988, 21, L199-L201.	1.5	813
129	Temperature dependence of the photoconductivity relaxation time of p-CdCr2Se4. Journal of Physics C: Solid State Physics, 1986, 19, 7247-7251.	1.5	0
130	Temperature dependences of conductivity and photoconductivity of undoped HgCr2Se4. Journal of Physics C: Solid State Physics, 1984, 17, L293-L296.	1.5	1
131	Influence of magnetic ordering on the photoconductivity of p-CdCr2Se4. Journal of Physics C: Solid State Physics, 1983, 16, 6387-6394.	1.5	3
132	A method for determination of the stationary and the relaxation lifetimes of photocarriers in the case of bimolecular recombination. Journal Physics D: Applied Physics, 1983, 16, 1529-1531.	2.8	4
133	Critical behaviour of Co3O4 conductivity near the antiferromagnetic phase transition. Physica Status Solidi A, 1982, 71, 627-632.	1.7	8