

# Viktor G Hadjiev

## List of Publications by Year in descending order

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133  
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5,306  
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126907

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134  
docs citations

134  
times ranked

8479  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Raman spectra of Co <sub>3</sub> O <sub>4</sub> . Journal of Physics C: Solid State Physics, 1988, 21, L199-L201.	1.5	813
2	Chemical Vapor Deposition of Thin Crystals of Layered Semiconductor SnS <sub>2</sub> for Fast Photodetection Application. Nano Letters, 2015, 15, 506-513.	9.1	430
3	Protocol for the characterization of single-wall carbon nanotube material quality. Carbon, 2004, 42, 1783-1791.	10.3	269
4	Identification of Cobalt Oxides with Raman Scattering and Fourier Transform Infrared Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 4511-4516.	3.1	214
5	Raman spectroscopy of ordered double perovskite La <sub>2</sub> CoMnO <sub>6</sub> thin films. Physical Review B, 2007, 75, .	3.2	178
6	Single-Walled Carbon Nanotube Dispersions in Poly(ethylene oxide). Advanced Functional Materials, 2005, 15, 1832-1838.	14.9	173
7	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
8	Interaction of Organic Cation with Water Molecule in Perovskite MAPbI <sub>3</sub> : From Dynamic Orientational Disorder to Hydrogen Bonding. Chemistry of Materials, 2016, 28, 7385-7393.	6.7	169
9	Raman spectroscopy of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . Physical Review B, 2002, 66, .	3.2	144
10	Raman scattering test of single-wall carbon nanotube composites. Applied Physics Letters, 2001, 78, 3193-3195.	3.3	136
11	Improved mechanical properties of an epoxy glass fiber composite reinforced with surface organomodified nanoclays. Composites Part B: Engineering, 2015, 72, 175-182.	12.0	117
12	Role of Jahn-Teller disorder in Raman scattering of mixed-valence manganites. Physical Review B, 2003, 67, .	3.2	113
13	Phonon and magnon scattering of antiferromagnetic $\text{Bi}_2\text{Te}_3$ . Physical Review B, 2010, 81, .	3.2	107
14	Raman and infrared spectra of brookite (TiO <sub>2</sub> ): Experiment and theory. Vibrational Spectroscopy, 2013, 64, 148-152.	2.2	98
15	Revealing the Origin of Luminescence Center in OD Cs <sub>4</sub> PbBr <sub>6</sub> Perovskite. Chemistry of Materials, 2019, 31, 9098-9104.	6.7	93
16	Raman-scattering study of $\text{K}_x\text{Mg}_{1-x}\text{Sn}$ . Physical Review B, 2008, 78, .	3.2	82
17	Extrinsic Green Photoluminescence from the Edges of 2D Cesium Lead Halides. Advanced Materials, 2019, 31, e1902492.	21.0	75
18	Resonant Raman scattering of oxygen-deficient YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> : Evidence for the coexistence of ortho-I, ortho-II, and tetragonal microstructures. Physical Review B, 1993, 47, 12341-12344.	3.2	74

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19	Strong superconductivity-induced phonon self-energy effects in $\text{HgBa}_2\text{Ca}_3\text{Cu}_4\text{O}_{10+\delta}$ . <i>Physical Review B</i> , 1998, 58, 1043-1050.	3.2	74
20	Raman spectroscopy of low-temperature (Pnma) and high-temperature ( $R\bar{3}m$ ) phases of $\text{LaCrO}_3$ . <i>Physical Review B</i> , 2006, 74, .	3.2	72
21	Field effect transistors with layered two-dimensional $\text{SnS}_2$ xSex conduction channels: Effects of selenium substitution. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	67
22	Raman spectroscopy of $\text{FeAsO}$ . <i>Physical Review B</i> , 2008, 77, .	3.2	65
23	Hierarchical Polymer-Nanotube Composites. <i>Advanced Materials</i> , 2007, 19, 3850-3853.	21.0	57
24	Effect of oxygen disorder on superconductivity-induced self-energy effects in impurity-free $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ . <i>Solid State Communications</i> , 1991, 80, 643-647.	1.9	51
25	Optical properties of high-dielectric-constant $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ films. <i>Physica Status Solidi A</i> , 2003, 195, 453-458.	1.7	47
26	Resonance Raman spectroscopy of G-line and folded phonons in twisted bilayer graphene with large rotation angles. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	46
27	Spontaneous Formation of 2D/3D Heterostructures on the Edges of 2D Ruddlesden-Popper Hybrid Perovskite Crystals. <i>Chemistry of Materials</i> , 2020, 32, 5009-5015.	6.7	45
28	Raman microscopy of residual strains in carbon nanotube/epoxy composites. <i>Carbon</i> , 2010, 48, 1750-1756.	10.3	42
29	Origin of Luminescent Centers and Edge States in Low-Dimensional Lead Halide Perovskites: Controversies, Challenges and Instructive Approaches. <i>Nano-Micro Letters</i> , 2019, 11, 26.	27.0	42
30	Buckling instabilities of octadecylamine functionalized carbon nanotubes embedded in epoxy. <i>Composites Science and Technology</i> , 2006, 66, 128-136.	7.8	41
31	Phonon probe of local strains in $\text{SnSxSe}_2$ mixed crystals. <i>Physical Review B</i> , 2013, 87, .	3.2	37
32	Morphed graphene nanostructures: Experimental evidence for existence. <i>Carbon</i> , 2016, 102, 288-296.	10.3	37
33	Staged epoxy/walled carbon nanotube nanocomposite thin films for composite reinforcement. <i>Journal of Applied Polymer Science</i> , 2009, 112, 290-298.	2.6	34
34	HRTEM low dose: the unfold of the morphed graphene, from amorphous carbon to morphed graphenes. <i>Advanced Structural and Chemical Imaging</i> , 2016, 2, 10.	4.0	33
35	Anomalous vibrational properties of cubic boron arsenide. <i>Physical Review B</i> , 2014, 89, .	3.2	32
36	Raman-scattering probe of oxygen ordering during room-temperature annealing of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ . <i>Physical Review B</i> , 1993, 47, 9148-9150.	3.2	28

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37	Optical phonons probe of the SrLaAlO <sub>4</sub> crystal structure. <i>Journal of Alloys and Compounds</i> , 1997, 251, 7-10.	5.5	28
38	Raman Scattering from Magnetic Excitations in the Ferromagnetic Superconductor RuSr <sub>2</sub> GdCu <sub>2</sub> O <sub>8</sub> ?. <i>Physica Status Solidi (B): Basic Research</i> , 1999, 211, R5-R6.	1.5	28
39	Enhanced Raman microprobe imaging of single-wall carbon nanotubes. <i>Nanotechnology</i> , 2004, 15, 562-567.	2.6	28
40	Raman study of pure and Ce doped single crystals of Nd <sub>2-x</sub> Ce <sub>x</sub> CuO <sub>4-y</sub> . <i>Solid State Communications</i> , 1989, 71, 1093-1097.	1.9	26
41	Thermal mismatch strains in sidewall functionalized carbon nanotube/polystyrene nanocomposites. <i>Journal of Chemical Physics</i> , 2005, 122, 124708.	3.0	26
42	Parallel and orthogonal <i>E</i> -field alignment of single-walled carbon nanotubes by ac dielectrophoresis. <i>Nanotechnology</i> , 2009, 20, 035201.	2.6	26
43	Raman scattering from phonons in YNi <sub>2</sub> B <sub>2</sub> C. <i>Physical Review B</i> , 1994, 50, 16726-16728.	3.2	24
44	A Parametric Study of Single-Wall Carbon Nanotube Growth by Laser Ablation. <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 762-773.	0.9	24
45	High-toughness/low-friction ductile epoxy coatings reinforced with carbon nanostructures. <i>Polymer Testing</i> , 2015, 47, 113-119.	4.8	24
46	Multi-functional fullerene soot/alumina composites with improved toughness and electrical conductivity. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 558, 13-20.	5.6	22
47	Raman Spectroscopy of Local Structure and Reordering Processes in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> -Type Compounds. <i>Journal of Raman Spectroscopy</i> , 1996, 27, 333-342.	2.5	21
48	Fast characterization of magnetic impurities in single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2003, 83, 4601-4603.	3.3	21
49	Polarized Raman spectra of superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> single microcrystals. <i>Solid State Communications</i> , 1988, 66, 451-453.	1.9	20
50	Infrared and raman spectra of C <sub>60</sub> -n-pentane clathrate crystals. <i>Chemical Physics Letters</i> , 1993, 202, 325-329.	2.6	20
51	Gold nanoparticle SERS substrates sustainable at extremely high temperatures. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4959-4966.	5.5	20
52	Polarized Raman scattering from Bi-based HTS single crystals and its relation to the lattice dynamics of Y-123 compounds. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 157, 495-501.	1.2	19
53	Oriented Single-Walled Carbon Nanotubes/Poly(ethylene oxide) Nanocomposites. <i>Macromolecules</i> , 2012, 45, 9357-9363.	4.8	19
54	Raman spectra of superconducting and impurity phases in Bi-Ca-Sr-Cu-O ceramics. <i>Physica C: Superconductivity and Its Applications</i> , 1988, 156, 193-196.	1.2	18

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55	Raman depolarization ratio of vibrational modes in solid C60. Solid State Communications, 1999, 112, 517-520.	1.9	18
56	Raman spectroscopy of CaRuO3. Physical Review B, 2002, 66, .	3.2	18
57	Multiple-order Raman scattering from rare-earth manganites: Oxygen isotope and rare-earth substitution effects. Physical Review B, 2007, 75, .	3.2	18
58	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
59	Raman scattering from YBa2Fe3O8+ $\delta$ . Physical Review B, 1994, 50, 586-589.	3.2	16
60	Raman study of twin-free ortho-II $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ crystals. Physical Review B, 2008, 77, .	3.2	16
61	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
62	New Way to Synthesize Robust and Porous Ni $\text{Fe}$ Layered Double Hydroxide for Efficient Electrocatalytic Oxygen Evolution. ACS Applied Materials & Interfaces, 2019, 11, 32909-32916.	8.0	16
63	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
64	Raman study of hydrogenated R $\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ (R = Y, Gd). Physica C: Superconductivity and Its Applications, 1990, 171, 257-264.	1.2	15
65	Raman and Mössbauer study of the pseudo-orthorhombic-to-tetragonal phase transition in YBa $_2$ (Cu $_{1-x}$ Fe $_x$ ) $_3$ O $_{7-x}$ (0.02 $\leq x \leq$ 0.15). Physica C: Superconductivity and Its Applications, 1992, 191, 419-428.	1.2	15
66	Transformations of the local structure of YBa $_2$ Cu $_3$ O $_{7-x}$ due to laser annealing. Physica C: Superconductivity and Its Applications, 1997, 279, 63-69.	1.2	15
67	Raman Imaging Approach to the Study of Ferroelectric Domains and Raman Spectra of Multiferroic Boracites. Acta Physica Polonica A, 2009, 116, 19-24.	0.5	15
68	Influence of the crystal field on the Raman intensity of C60fullerites. Physical Review B, 1997, 56, 2495-2500.	3.2	14
69	Symmetry of phonon, magnetic, and spin-phonon excitations in GdSr $_2$ RuCu $_2$ O $_8$ single crystals. Physical Review B, 2001, 64, .	3.2	14
70	Fast Sol-Gel Preparation of Silicon Carbide/Silicon Oxycarbide Nanocomposites. Journal of the American Ceramic Society, 2011, 94, 4444-4452.	3.8	14
71	Boron isotope effect on the thermal conductivity of boron arsenide single crystals. Materials Today Physics, 2019, 11, 100169.	6.0	14
72	A Raman study of the structural properties of YBa $_2$ (Cu $_{1-x}$ Fe $_x$ ) $_3$ O $_y$ . Physica C: Superconductivity and Its Applications, 1990, 170, 419-426.	1.2	13

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73	Photoluminescence and Raman Spectra of One-Dimensional Lead-free Perovskite CsCu <sub>2</sub> Cl <sub>3</sub> Single-Crystal Wires. Journal of Physical Chemistry Letters, 2022, 13, 6447-6454.	4.6	13
74	AB-Stacked Multilayer Graphene Synthesized via Chemical Vapor Deposition: A Characterization by Hot Carrier Transport. ACS Nano, 2012, 6, 1142-1148.	14.6	13
75	Photoluminescence and Raman Spectra of One-Dimensional Lead-free Perovskite CsCu <sub>2</sub> Cl <sub>3</sub> Single-Crystal Wires. Journal of Physical Chemistry Letters, 2022, 13, 6447-6454.	4.6	13
76	Porous media reinforced with carbon soots. Materials Chemistry and Physics, 2013, 140, 651-658.	4.0	12
77	Raman study of phonons in Ca <sub>2</sub> MnO <sub>12</sub> : Effects of structural modulation and structural transition. Physical Review B, 2014, 89, .	3.2	12
78	Phonon fingerprints of CsPb <sub>2</sub> Br <sub>5</sub> . Journal of Physics Condensed Matter, 2018, 30, 405703.	1.8	12
79	Enhanced elastic behavior of all-carbon composites reinforced by in-situ synthesized morphed graphene. Carbon, 2019, 153, 657-662.	10.3	12
80	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
81	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
82	Polarised Raman scattering from orthorhombic and tetragonal GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> single crystals: New evidence of chains-to-planes charge redistribution. Physica C: Superconductivity and Its Applications, 1990, 166, 225-230.	1.2	10
83	Rotation-vibrational dynamics of solid C <sub>60</sub> : A Raman study. Physical Review B, 1999, 60, 13351-13354.	3.2	10
84	Unusual catalytic activity of TiO <sub>2</sub> @CoTiO <sub>3</sub> under 1064 nm pulsed laser illumination. Catalysis Today, 2020, 349, 3-9.	4.4	10
85	Polarized Raman spectra of superconducting and semiconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> single crystals. Physica C: Superconductivity and Its Applications, 1988, 153-155, 290-291.	1.2	9
86	Anomalous phonon self-energy effects in SmBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> : A Raman study. Physical Review B, 1998, 58, 14211-14214.	3.2	9
87	Polymer Precursor-Based Preparation of Carbon Nanotube-Silicon Carbide Nanocomposites. Journal of the American Ceramic Society, 2012, 95, 328-337.	3.8	9
88	Critical behaviour of Co <sub>3</sub> O <sub>4</sub> conductivity near the antiferromagnetic phase transition. Physica Status Solidi A, 1982, 71, 627-632.	1.7	8
89	Normal state charge redistribution as determined by the Raman scattering from orthorhombic and tetragonal single crystals of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Journal of Physics Condensed Matter, 1990, 2, 3135-3139.	1.8	8
90	Ultraweak electron-phonon coupling strength in cubic boron arsenide unveiled by ultrafast dynamics. Physical Review B, 2022, 105, .	3.2	8

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91	Superconductivity-Induced Phonon Renormalization in (Cu,C)Ba <sub>2</sub> Ca <sub>3</sub> Cu <sub>4</sub> O <sub>z</sub> Superconductor. Physica Status Solidi (B): Basic Research, 1998, 205, R1-R2.	1.5	7
92	Comment on "Raman Scattering Study on Fully Oxygenated YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Single Crystals: Anisotropy in the Superconductivity-Induced Effects". Physical Review Letters, 1998, 81, 2180-2180.	7.8	7
93	Raman spectrum of the double-layer superconductor La <sub>2-x</sub> Sr <sub>x</sub> CaCu <sub>2</sub> O <sub>6+δ</sub> (0.2 ≤ x ≤ 0.4). Physica C: Superconductivity and Its Applications, 1991, 179, 295-302.	1.2	6
94	Comment on "Rotational ordering transition in single-crystal C <sub>60</sub> studied by Raman spectroscopy". Physical Review Letters, 1992, 69, 1146-1146.	7.8	6
95	Oxygen rearrangement due to laser heating and room-temperature-ageing in RBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> (R = Nd, Y). Physica C: Superconductivity and Its Applications, 1994, 235-240, 1255-1256.	1.2	6
96	Lattice dynamics and spin-phonon coupling in CaMn <sub>2</sub> O <sub>4</sub> : A Raman study. Physical Review B, 2014, 89, .	3.2	6
97	Bacteriostatic effect of CoO-TiO <sub>2</sub> on Listeria monocytogenes by the presence of the co-catalytic CoO nanoparticles. Journal of Environmental Chemical Engineering, 2020, 8, 104259.	6.7	6
98	Comment on "Anomalously Broad Raman Scattering Spectrum due to Two-Magnon Excitation in Hexagonal YMnO <sub>3</sub> ". Physical Review Letters, 2003, 90, 069701.	7.8	5
99	Tunable magnetoresistance behavior in suspended graphitic multilayers through ion implantation. Physical Review B, 2011, 83, .	3.2	5
100	How to Identify the Crystal Growth Unit. Israel Journal of Chemistry, 2021, 61, 818-827.	2.3	5
101	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
102	Investigations of the new high temperature superconductor BiSrCaCu <sub>2</sub> O <sub>x</sub> . Physica C: Superconductivity and Its Applications, 1988, 153-155, 627-628.	1.2	4
103	Low temperature phase transition in n-pentane C <sub>60</sub> clathrate: a Raman scattering study. Chemical Physics Letters, 2000, 326, 58-64.	2.6	4
104	Electronic band structure of SrCu <sub>4</sub> As <sub>2</sub> and KCu <sub>2</sub> O. Physical Review B, 2001, 64, 040403.	3.2	4
105	Electron Microscopy of Morphed Graphene Nanostructures Synthesized by Mechanical Milling. Microscopy and Microanalysis, 2016, 22, 1250-1251.	0.4	4
106	Influence of magnetic ordering on the photoconductivity of p-CdCr <sub>2</sub> Se <sub>4</sub> . Journal of Physics C: Solid State Physics, 1983, 16, 6387-6394.	1.5	3
107	Sr-substitution-dependent mixing of the (Ba,Sr)-Ag and Cu <sub>2</sub> -Ag phonons in NdBa <sub>2-x</sub> Sr <sub>x</sub> Cu <sub>3</sub> O <sub>7-δ</sub> (0 ≤ x ≤ 1). Journal of Applied Physics, 2001, 90, 7843-7851.	1.2	3
108	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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109	Raman scattering from magnetic excitations in ruthenate-cuprates. Physica C: Superconductivity and Its Applications, 2000, 341-348, 2255-2256. Phonons in the cubic phase of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$	1.2	3

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127	TEM Characterization of the Edges of CsPb <sub>2</sub> Br <sub>5</sub> Perovskite Crystals. <i>Microscopy and Microanalysis</i> , 2018, 24, 1984-1985.	0.4	0
128	Effective Reinforcement of Carbon-Carbon Composites Using Morped Graphene. <i>Microscopy and Microanalysis</i> , 2018, 24, 138-139.	0.4	0
129	Low Dose TEM on the Degradation of the MAPbI <sub>3</sub> Perovskite. <i>Microscopy and Microanalysis</i> , 2019, 25, 1716-1717.	0.4	0
130	Electron Microscopy of Perovskite Phase Distribution on Light Emitting Edges. <i>Microscopy and Microanalysis</i> , 2020, 26, 2346-2347.	0.4	0
131	Optical Properties of C <sub>60</sub> -Diethyl Ether Clathrate Single Crystals. <i>Springer Series in Solid-state Sciences</i> , 1993, , 312-315.	0.3	0
132	Lattice Dynamics of HgBa <sub>2</sub> CuO <sub>4</sub> . , 1995, , 239-240.		0
133	Understanding the Origin of Green Photoluminescence in Low-dimensional Lead Halide Perovskites. , 2019, , .		0