Ariete Righi

List of Publications by Year
in descending order

69 papers	1,886 citations	257429 24 h-index	265191 42 g-index
69 all docs	69 docs citations	69 times ranked	2825 citing authors

#	Article	IF	Citations
1	Resonant Raman study of the structure and electronic properties of single-wall carbon nanotubes. Chemical Physics Letters, 2000, 316, 186-190.	2.6	226
2	Polarized resonant Raman study of isolated single-wall carbon nanotubes: Symmetry selection rules, dipolar and multipolar antenna effects. Physical Review B, 2002, 65, .	3.2	124
3	New Insight into the Vibrational Behavior of Nickel Hydroxide and Oxyhydroxide Using Inelastic Neutron Scattering, Far/Mid-Infrared and Raman Spectroscopies. Journal of Physical Chemistry C, 2008, 112, 2193-2201.	3.1	119
4	Diameter distribution of single wall carbon nanotubes in nanobundles. European Physical Journal B, 2000, 18, 201-205.	1.5	109
5	Intralayer and interlayer electronâ€“phonon interactions in twisted graphene heterostructures. Nature Communications, 2018, 9, 1221.	12.8	93
6	Resonant Raman spectroscopy of graphene grown on copper substrates. Solid State Communications, 2012, 152, 1317-1320.	1.9	86
7	Temperature effects on the vibronic spectra of BEHâ€“PPV conjugated polymer films. Journal of Chemical Physics, 2003, 119, 9777-9782.	3.0	68
8	Graphene MoirÃ© patterns observed by umklapp double-resonance Raman scattering. Physical Review B, 2011, 84, .	3.2	66
9	Gas and pressure effects on the production of single-walled carbon nanotubes by laser ablation. Carbon, 2000, 38, 1445-1451.	10.3	61
10	Raman-spectroscopic study of lanthanide trifluorides with the Â-YF3structure. Journal of Physics Condensed Matter, 2004, 16, 3207-3218.	1.8	59
11	Polarized Raman, <scp>FTIR,</scp> and <scp>DFT</scp> study of <scp>Na₂Ti₃O₇</scp> microcrystals. Journal of Raman Spectroscopy, 2018, 49, 538-548.	2.5	54
12	Excitation energy dependence of the Raman spectrum of single-walled carbon nanotubes. Chemical Physics Letters, 2000, 320, 441-447.	2.6	49
13	Low-frequency Raman modes in Cs- and Rb-doped single wall carbon nanotubes. Chemical Physics Letters, 2001, 339, 305-310.	2.6	47
14	Raman resonance and orientational order in fibers of single-wall carbon nanotubes. Physical Review B, 2002, 65, .	3.2	43
15	Structural characterization of barium titanateâ€“cobalt ferrite composite powders. Ceramics International, 2011, 37, 1259-1264.	4.8	41
16	Single-walled carbon nanotubes produced by cw CO 2 -laser ablation: study of parameters important for their formation. Applied Physics A: Materials Science and Processing, 2000, 70, 145-151.	2.3	39
17	Synthesis of C60(OH)18-20 in aqueous alkaline solution under O2-atmosphere. Journal of the Brazilian Chemical Society, 2006, 17, 1186-1190.	0.6	39
18	Structural, electronic and optical properties of monoclinic Na 2 Ti 3 O 7 from density functional theory calculations: A comparison with XRD and optical absorption measurements. Journal of Solid State Chemistry, 2017, 250, 68-74.	2.9	38

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19	Diameter dependence of Raman intensities for single-wall carbon nanotubes. Physical Review B, 2001, 63, .	3.2	35
20	Raman studies on 0.4 nm diameter single wall carbon nanotubes. Chemical Physics Letters, 2002, 351, 27-34.	2.6	35
21	Raman and infrared study of hydroxyl sites in natural uvite, fluor-uvite, magnesio-foitite, dravite and elbaite tourmalines. Physics and Chemistry of Minerals, 2014, 41, 247-254.	0.8	28
22	Resonant Raman spectroscopy on enriched 13C carbon nanotubes. Carbon, 2011, 49, 4719-4723.	10.3	25
23	Correlation between thermal, optical and morphological properties of heterogeneous blends of poly(3-hexylthiophene) and thermoplastic polyurethane. Journal of Physics Condensed Matter, 2006, 18, 7529-7542.	1.8	24
24	Resonance Raman spectroscopy in twisted bilayer graphene. Solid State Communications, 2013, 175-176, 13-17.	1.9	24
25	Raman and birefringence studies of the low-temperature phase transitions inLiK1â^'xRbxSO4crystals. Physical Review B, 1995, 52, 12591-12600.	3.2	23
26	Metavivianite, Fe²⁺Fe³⁺₂(PO₄)₂(OH)₂Â·6H₂O new data and formula revision. Mineralogical Magazine, 2012, 76, 725-741.	1.4	20
27	Probing carbon isotope effects on the Raman spectra of graphene with different<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>13</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>concentrations. Physical Review B, 2015, 92, .	3.2	20
28	Raman excitation profile of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>G</mml:mi></mml:math>band in single-chirality carbon nanotubes. Physical Review B, 2014, 89, .	3.2	17
29	Temperature dependence of the doubleâ€resonance Raman bands in monolayer <scp>MoS₂</scp>. Journal of Raman Spectroscopy, 2019, 50, 1867-1874.	2.5	15
30	Large blue shift in the absorption spectra of BEH-PPV films containing gold nanoparticles. Synthetic Metals, 2003, 139, 283-286.	3.9	14
31	Identification of lamivudine conformers by Raman scattering measurements and quantum chemical calculations. Journal of Pharmaceutical and Biomedical Analysis, 2007, 43, 1885-1889.	2.8	14
32	The double-resonance Raman spectra in single-chirality (n, m) carbon nanotubes. Carbon, 2017, 117, 41-45.	10.3	13
33	Optical study ofLiKSO4crystals under uniaxial pressure. Physical Review B, 1994, 50, 2754-2759.	3.2	12
34	Interactions of porphyrins and single walled carbon nanotubes: A fine duet. Synthetic Metals, 2014, 193, 64-70.	3.9	12
35	Quantifying (n,m) species in single-wall carbon nanotubes dispersions by combining Raman and optical absorption spectroscopies. Carbon, 2017, 115, 681-687.	10.3	12
36	Dielectric screening in polyynes encapsulated inside double-wall carbon nanotubes. Physical Review B, 2011, 83, .	3.2	11

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37	Smearing of the reconstructive phase transition in pure and mixedLiK1â^'xRbxSO4crystals. Physical Review B, 1997, 56, 10722-10725.	3.2	10
38	Phase diagram of mixed LiK1-xRbxSO4 crystals. Solid State Communications, 1998, 107, 193-196.	1.9	10
39	The influence of the target composition in the structural characteristics of single-walled carbon nanotubes produced by laser ablation. Synthetic Metals, 2001, 121, 1193-1194.	3.9	10
40	An X-ray scattering study of the low-temperature phase transitions of LiKSO4. Journal of Physics Condensed Matter, 1995, 7, 8445-8452.	1.8	9
41	Raman study of orientational order in fibers of single wall carbon nanotubes. Physica B: Condensed Matter, 2002, 323, 38-43.	2.7	9
42	Resonant Laserâ€Induced Formation of Doubleâ€Walled Carbon Nanotubes from Peapods under Ambient Conditions. Small, 2012, 8, 2045-2052.	10.0	9
43	Raman Excitation Profile of the G-band Enhancement in Twisted Bilayer Graphene. Brazilian Journal of Physics, 2017, 47, 589-593.	1.4	9
44	Electrical conductivity of Î±-LiIO3 acid type crystals at 1 kHz. Solid State Communications, 1995, 93, 1013-1017.	1.9	8
45	Dielectric response of Î±-LiIO3 acid type crystals. Solid State Communications, 1998, 105, 481-484.	1.9	7
46	Origin of the color in cobalt-doped quartz. Physics and Chemistry of Minerals, 2011, 38, 623-629.	0.8	7
47	Nanometrological porphyrins. Nanotechnology, 2012, 23, 275504.	2.6	7
48	Purplish-red almandine garnets with alexandrite-like effect: causes of colors and color-enhancing treatments. Physics and Chemistry of Minerals, 2013, 40, 555-562.	0.8	7
49	Probing combinations of acoustic phonons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> by intervalley double-resonance Raman scattering. Physical Review B, 2021, 103, .	3.2	7
50	Resonance Raman enhancement by the intralayer and interlayer electronâ€“phonon processes in twisted bilayer graphene. Scientific Reports, 2021, 11, 17206.	3.3	7
51	Multiple excitations and temperature study of the disorder-induced Raman bands in MoS₂. 2D Materials, 2021, 8, 035042.	4.4	6
52	Electro-optic properties of LiKSO 4 and LiK 1-x Rb x SO 4 crystals. Applied Physics B: Lasers and Optics, 1998, 67, 559-562.	2.2	5
53	Optical properties of MEH-PPV conjugated polymer covered by silica nanoshells. Journal of Applied Polymer Science, 2006, 102, 5620-5626.	2.6	5
54	Soapstone reinforced hydroxyapatite coatings for biomedical applications. Surface and Coatings Technology, 2020, 397, 126005.	4.8	5

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55	Low temperature study of LiK1â^'xRbxSO4mixed crystals. Ferroelectrics, 1996, 184, 289-292.	0.6	4
56	Resonance Raman scattering: nondestructive and noninvasive technique for structural and electronic characterization of isolated single-wall carbon nanotubes. Brazilian Journal of Physics, 2002, 32, 921-924.	1.4	4
57	Poly(2-methoxy-5-(2â€²-ethyl-hexyloxy)-1,4-phenylenevinylene) conjugated polymer domains in a thermoplastic polyurethane matrix. Journal of Applied Physics, 2007, 101, 033133.	2.5	4
58	Comparison between hydroxyapatite/soapstone and hydroxyapatite/reduced graphene oxide composite coatings: Synthesis and property improvement. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 121, 104618.	3.1	4
59	Pyroelectric and calorimetric investigations of the ferroelectric transition in p(VDF-TRFE) copolymers. Ferroelectrics, 1994, 159, 257-262.	0.6	3
60	Comparative study of electrical behavior and phase transitions in pure and chromium doped Î±-LiIO3single crystals. Radiation Effects and Defects in Solids, 1999, 150, 333-340.	1.2	3
61	Applications of the Rietveld method to quantify the crystalline phases of Portland cement clinker doped with nickel and chromium. Powder Diffraction, 2008, 23, S42-S45.	0.2	3
62	Structural and vibrational studies of tunnel-like titanate nanoribbons with good ion exchange capacity. Vibrational Spectroscopy, 2017, 88, 77-82.	2.2	3
63	High temperature neutron diffraction study of LiK1-xRbxSO4crystals. Journal of Physics Condensed Matter, 1999, 11, 6859-6866.	1.8	2
64	Electrical conductivity and micro-Raman scattering studies of ionic conduction in Li1â^'xHxIO3 solid solutions. Solid State Ionics, 2002, 148, 203-209.	2.7	2
65	Structural disorder and ionic conductivity in Li1â^'xHxIO3solid solutions. Ferroelectrics, 1996, 184, 265-268.	0.6	1
66	Sorting of singleâ€walled carbon nanotubes by amphiphiles molecules adsorption studied by resonant Raman excitation profile. Physica Status Solidi (B): Basic Research, 2009, 246, 2444-2447.	1.5	1
67	The Structural Phase Transitions in LiK0.50Rb0.50SO4Mixed Crystal. Journal of the Physical Society of Japan, 1998, 67, 4285-4290.	1.6	0
68	Raman Study of Single Wall Carbon Nanotube Doped by Alkali Metals. Materials Research Society Symposia Proceedings, 2000, 633, 1061.	0.1	0
69	RESONANCE RAMAN SPECTROSCOPY IN TWISTED BILAYER GRAPHENE. , 2013, , .		0