

Cristiano Fantini

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,361
citations

430754

18
h-index

345118

36
g-index

41
all docs

41
docs citations

41
times ranked

2799
citing authors

#	ARTICLE	IF	CITATIONS
1	Excited Excitonic States in 1L, 2L, 3L, and Bulk WSe ₂ Observed by Resonant Raman Spectroscopy. ACS Nano, 2014, 8, 9629-9635.	7.3	207
2	Intervalley scattering by acoustic phonons in two-dimensional MoS ₂ revealed by double-resonance Raman spectroscopy. Nature Communications, 2017, 8, 14670.	5.8	196
3	Symmetry-Dependent Exciton-Phonon Coupling in 2D and Bulk MoS ₂ by Resonance Raman Scattering. Physical Review Letters, 2015, 114, 136403.	2.9	177
4	Comparative Study of Raman Spectroscopy in Graphene and MoS ₂ -type Transition Metal Dichalcogenides. Accounts of Chemical Research, 2015, 48, 41-47.	7.6	143
5	Resonant Raman spectroscopy of graphene grown on copper substrates. Solid State Communications, 2012, 152, 1317-1320.	0.9	86
6	Toxicity of single-wall carbon nanotubes functionalized with polyethylene glycol in zebrafish (<i>Danio rerio</i>) embryos. Journal of Applied Toxicology, 2017, 37, 214-221.	1.4	50
7	Investigation of the light emission efficiency of single-wall carbon nanotubes wrapped with different surfactants. Chemical Physics Letters, 2009, 473, 96-101.	1.2	39
8	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.	0.3	28
9	Biodistribution and toxicological study of PEGylated single-wall carbon nanotubes in the zebrafish (<i>Danio rerio</i>) nervous system. Toxicology and Applied Pharmacology, 2014, 280, 484-492.	1.3	26
10	Raman spectroscopy and discriminant analysis applied to the detection of frauds in bovine meat by the addition of salts and carrageenan. Microchemical Journal, 2019, 147, 582-589.	2.3	26
11	Resonant Raman spectroscopy on enriched ¹³ C carbon nanotubes. Carbon, 2011, 49, 4719-4723.	5.4	25
12	Double resonance Raman scattering process in 2D materials. Journal of Materials Research, 2019, 34, 1976-1992.	1.2	25
13	Raman probing carbon & aqueous electrolytes interfaces and molecular dynamics simulations towards understanding electrochemical properties under polarization conditions in supercapacitors. Journal of Energy Chemistry, 2021, 60, 279-292.	7.1	24
14	Enhanced Oxygen Singlet Production by Hybrid System of Porphyrin and Enriched (6,5) Single-Walled Carbon Nanotubes for Photodynamic Therapy. Journal of Physical Chemistry C, 2015, 119, 4344-4350.	1.5	23
15	Biopersistence of PEGylated Carbon Nanotubes Promotes a Delayed Antioxidant Response after Infusion into the Rat Hippocampus. PLoS ONE, 2015, 10, e0129156.	1.1	23
16	Probing carbon isotope effects on the Raman spectra of graphene with different ¹³ C concentrations. Physical Review B, 2015, 92, .	1.1	20
17	Discrimination between conventional and omega-3 fatty acids enriched eggs by FT-Raman spectroscopy and chemometric tools. Food Chemistry, 2019, 273, 144-150.	4.2	19
18	Toxicological assessment of PEGylated single-walled carbon nanotubes in early developing zebrafish. Toxicology and Applied Pharmacology, 2018, 347, 54-59.	1.3	15

#	ARTICLE	IF	CITATIONS
19	Temperature dependence of the double-resonance Raman bands in monolayer MoS_2 . Journal of Raman Spectroscopy, 2019, 50, 1867-1874.	1.2	15
20	Near infrared nonlinear refractive index dispersion of metallic and semiconducting single-wall carbon nanotube colloids. Carbon, 2014, 77, 939-946.	5.4	14
21	Thermoplastic Polyurethane Nanocomposites Produced via Impregnation of Long Carbon Nanotube Forests. Macromolecular Materials and Engineering, 2011, 296, 53-58.	1.7	13
22	The double-resonance Raman spectra in single-chirality (n, m) carbon nanotubes. Carbon, 2017, 117, 41-45.	5.4	13
23	Quantifying (n,m) species in single-wall carbon nanotubes dispersions by combining Raman and optical absorption spectroscopies. Carbon, 2017, 115, 681-687.	5.4	12
24	Origin of the complex Raman tensor elements in single-layer triclinic ReSe_2 . 2D Materials, 2021, 8, 025002.	2.0	12
25	Origin of the Giant Enhanced Raman Scattering by Sulfur Chains Encapsulated inside Single-Wall Carbon Nanotubes. ACS Nano, 2021, 15, 8574-8582.	7.3	10
26	Excitonic States and Resonance Raman Spectroscopy of Single-Wall Carbon Nanotubes. Topics in Applied Physics, 2007, , 251-286.	0.4	9
27	Dramatic increase in the Raman signal of functional groups on carbon nanotube surfaces. Carbon, 2013, 56, 235-242.	5.4	9
28	New insight on the use of diffuse reflectance spectroscopy for the optical characterization of $\text{Ln}_2\text{Ge}_2\text{O}_7$ (Ln = lanthanides) pyrogermanates. Journal of Luminescence, 2021, 238, 118312.	1.5	9
29	Unravelling the mechanisms of reactive oxygen species formation in nanohybrid systems of porphyrins and enriched (6,5) single-walled carbon nanotubes for photosensitization. Physical Chemistry Chemical Physics, 2016, 18, 20459-20465.	1.3	8
30	Structural, optical-vibration and magnetic properties of tetragonal lanthanide pyrogermanates obtained by molten-salt synthesis. Journal of Magnetism and Magnetic Materials, 2019, 482, 160-167.	1.0	8
31	Measuring the electronic properties of single-walled carbon nanotubes with adsorbed porphyrins using optical transitions. Journal of Porphyrins and Phthalocyanines, 2010, 14, 885-890.	0.4	7
32	Single-wall carbon nanotube interactions with copper-oxamato building block of molecule-based magnets probed by resonance Raman spectroscopy. Journal of Raman Spectroscopy, 2012, 43, 1951-1956.	1.2	7
33	Probing combinations of acoustic phonons in MoS_2 by intervalley double-resonance Raman scattering. Physical Review B, 2021, 103, .	1.1	7
34	Thermo-optical response of colloidal metallic and semiconducting single-walled carbon nanotubes. Optics and Laser Technology, 2019, 116, 315-321.	2.2	6
35	Multiple excitations and temperature study of the disorder-induced Raman bands in MoS_2 . 2D Materials, 2021, 8, 035042.	2.0	6
36	Temperature dependence of the double-resonance Raman bands in bilayer WSe_2 . Vibrational Spectroscopy, 2020, 110, 103117.	1.2	5

#	ARTICLE	IF	CITATIONS
37	Resonant Raman scattering of anthracene-based carbons in the secondary carbonization stage. Journal of Raman Spectroscopy, 2021, 52, 670-677.	1.2	5
38	Polymorphism in Gd ₂ Ge ₂ O ₇ ceramics: Structural, vibrational, and optical features. Ceramics International, 2021, 47, 15202-15209.	2.3	5
39	Effects of dimensionality and excitation energy on the Raman tensors of triclinic ReSe ₂ . Journal of Raman Spectroscopy, 2021, 52, 2068-2080.	1.2	5
40	New insights on the structural and optical-vibration properties of noncentrosymmetric lanthanides pyrogermanates. Ceramics International, 2020, 46, 13491-13501.	2.3	4