

# Luigi Brambilla

## List of Publications by Year in descending order

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76  
papers

1,815  
citations

257450

24  
h-index

315739

38  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2876  
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile Edge Functionalization of Graphene Layers with a Biosourced 2-Pyrone. ACS Sustainable Chemistry and Engineering, 2022, 10, 4082-4093.	6.7	4
2	Polyhydroxylated Nanosized Graphite as Multifunctional Building Block for Polyurethanes. Polymers, 2022, 14, 1159.	4.5	1
3	Vibrational and nonlinear optical properties of amine-capped push-pull polyynes by infrared and Raman spectroscopy. Carbon Trends, 2021, 5, 100115.	3.0	11
4	Reduced Graphene Oxide Membranes as Potential Self-Assembling Filter for Wastewater Treatment. Minerals (Basel, Switzerland), 2021, 11, 15.	2.0	10
5	Evidence of graphite blister evolution during the anion de-intercalation process in the cathodic regime. Applied Surface Science, 2020, 504, 144440.	6.1	11
6	P(VDF-TrFE) nanofibers: structure of the ferroelectric and paraelectric phases through IR and Raman spectroscopies. RSC Advances, 2020, 10, 37779-37796.	3.6	65
7	Poly(3-hexylthiophene-2,5-diyl): Evidence of different polymer chain conformations in the solid state from a combined study of regioregularity control and Raman spectroscopy. Journal of Molecular Structure, 2020, 1221, 128882.	3.6	4
8	Tuning the Solubility Parameters of Carbon Nanotubes by Means of Their Adducts with Janus Pyrrole Compounds. Nanomaterials, 2020, 10, 1176.	4.1	15
9	Edge Functionalized Graphene Layers for (Ultra) High Exfoliation in Carbon Papers and Aerogels in the Presence of Chitosan. Materials, 2020, 13, 39.	2.9	8
10	Radiolytic degradation of hydrophilic PyTri ligands for minor actinide recycling. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 1663-1673.	1.5	10
11	Polaron Confinement in n-Doped P(NDI2OD-T2) Unveiled by Vibrational Spectroscopy. Chemistry of Materials, 2019, 31, 6726-6739.	6.7	25
12	Incipient Anion Intercalation of Highly Oriented Pyrolytic Graphite Close to the Oxygen Evolution Potential: A Combined X-ray Photoemission and Raman Spectroscopy Study. Journal of Physical Chemistry C, 2019, 123, 1790-1797.	3.1	18
13	Domino Reaction for the Sustainable Functionalization of Few-Layer Graphene. Nanomaterials, 2019, 9, 44.	4.1	22
14	Selective edge functionalization of graphene layers with oxygenated groups by means of Reimer-Tiemann and domino Reimer-Tiemann/Cannizzaro reactions. Journal of Materials Chemistry A, 2018, 6, 7749-7761.	10.3	20
15	Facile and sustainable functionalization of graphene layers with pyrrole compounds. Pure and Applied Chemistry, 2018, 90, 253-270.	1.9	19
16	Stone/Coating Interaction and Durability of Si-Based Photocatalytic Nanocomposites Applied to Porous Lithotypes. Materials, 2018, 11, 2289.	2.9	11
17	A deep insight into the intrinsic healing mechanism in ureido-pyrimidinone copolymers. Polymers for Advanced Technologies, 2018, 29, 2899-2908.	3.2	11
18	Synthesis of Triply Fused Porphyrin-Nanographene Conjugates. Angewandte Chemie - International Edition, 2018, 57, 11233-11237.	13.8	50

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19	Synthesis of Triply Fused Porphyrinâ€Nanographene Conjugates. <i>Angewandte Chemie</i> , 2018, 130, 11403-11407.	2.0	18
20	Infrared and multiâ€wavelength Raman spectroscopy of regioâ€regular P3HT and its deuterio derivatives. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 569-580.	2.5	16
21	Fully Solutionâ€Processed nâ€iâ€pâ€Like Perovskite Solar Cells with Planar Junction: How the Charge Extracting Layer Determines the Openâ€Circuit Voltage. <i>Advanced Materials</i> , 2017, 29, 1604493.	21.0	50
22	Physiological and biochemical impacts of graphene oxide in polychaetes: The case of <i>Diopatra neapolitana</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2017, 193, 50-60.	2.6	24
23	Microscopic Analysis of the Different Perchlorate Anions Intercalation Stages of Graphite. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14246-14253.	3.1	23
24	Strain-dependent vibrational spectra and elastic modulus of poly(p-phenylene terephthalamide) from first-principles calculations. <i>Polymer</i> , 2017, 116, 133-142.	3.8	7
25	Diamond graphitization by laser-writing for all-carbon detector applications. <i>Diamond and Related Materials</i> , 2017, 75, 25-33.	3.9	26
26	Carbon Papers and Aerogels Based on Graphene Layers and Chitosan: Direct Preparation from High Surface Area Graphite. <i>Biomacromolecules</i> , 2017, 18, 3978-3991.	5.4	19
27	Metal-enhanced FÃrster resonance energy transfer (ME-FRET) in anthracene/tetracene-doped crystal systems. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30734-30739.	2.8	2
28	Evolution of the graphite surface in phosphoric acid: an AFM and Raman study. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1878-1884.	2.8	22
29	Polyhydroxylated few layer graphene for the preparation of flexible conductive carbon paper. <i>RSC Advances</i> , 2016, 6, 87767-87777.	3.6	18
30	Effect of potassium on a model soot combustion: Raman and HRTEM evidences. <i>Aerosol Science and Technology</i> , 2016, 50, 405-415.	3.1	12
31	Physico chemical properties of irradiated i-SANEX diluents. <i>Nukleonika</i> , 2015, 60, 893-898.	0.8	6
32	Study of the absorption spectra of Fricke xylene orange gel dosimeters. , 2015, , .		1
33	Overtone and combination features of G and D peaks in resonance Raman spectroscopy of the C <sub>78</sub> H <sub>26</sub> polycyclic aromatic hydrocarbon. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 757-764.	2.5	41
34	Outside rules inside: the role of electron-active substituents in thiophene-based heterophenanthroquinones. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10426-10437.	2.8	12
35	Structural Characterization of Highly Oriented Naphthalene-Diimide-Bithiophene Copolymer Films via Vibrational Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2062-2073.	2.6	19
36	Near IR to Red Up-Conversion in Tetracene/Pentacene Host/Guest Cocrystals Enhanced by Energy Transfer from Host to Guest. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17495-17501.	3.1	15

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37	Synthesis of calcium oxalate trihydrate: New data by vibrational spectroscopy and synchrotron X-ray diffraction. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 150, 721-730.	3.9	44
38	Biobased Janus molecule for the facile preparation of water solutions of few layer graphene sheets. <i>RSC Advances</i> , 2015, 5, 81142-81152.	3.6	27
39	Radiation-induced modifications on physico chemical properties of diluted nitric acid solutions within advanced spent nuclear fuel reprocessing. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 304, 395-400.	1.5	9
40	Photoactive Molecular Junctions Based on Self-Assembled Monolayers of Indoline Dyes. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 19774-19782.	8.0	5
41	Phase transformation of calcium oxalate dihydrate to monohydrate: Effects of relative humidity and new spectroscopic data. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 128, 413-419.	3.9	59
42	Anthracene/tetracene cocrystals as novel fluorophores in thin-film luminescent solar concentrators. <i>RSC Advances</i> , 2014, 4, 9893.	3.6	35
43	Regio-Regular Oligo and Poly(3-hexyl thiophene): Precise Structural Markers from the Vibrational Spectra of Oligomer Single Crystals. <i>Macromolecules</i> , 2014, 47, 6730-6739.	4.8	42
44	Portable Raman versus portable mid-FTIR reflectance instruments to monitor synthetic treatments used for the conservation of monument surfaces. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1733-1741.	3.7	15
45	IR spectroscopy of crystalline polymers from ab initio calculations: Nylon 6,6. <i>Vibrational Spectroscopy</i> , 2013, 66, 83-92.	2.2	32
46	Molecular Level Investigation of the Film Structure of a High Electron Mobility Copolymer via Vibrational Spectroscopy. <i>Macromolecules</i> , 2013, 46, 2658-2670.	4.8	63
47	Photo-degradation of a perylene-based organic luminescent solar concentrator: Molecular aspects and device implications. <i>Solar Energy Materials and Solar Cells</i> , 2013, 111, 41-48.	6.2	82
48	A Novel Classification Method for Multispectral Imaging Combined with Portable Raman Spectroscopy for the Analysis of a Painting by Vincent Van Gogh. <i>Applied Spectroscopy</i> , 2013, 67, 1234-1241.	2.2	20
49	Predictive modeling of the vibrational quenching in emitting lanthanides complexes. <i>Synthetic Metals</i> , 2012, 161, 2693-2699.	3.9	20
50	Raman spectroscopy of polyconjugated molecules with electronic and mechanical confinement: the spectrum of <i>Corallium rubrum</i> . <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1449-1458.	2.5	31
51	Intramolecular interactions in polymethylenic chains with polar end groups: The spectroscopic signature. <i>Journal of Molecular Structure</i> , 2012, 1009, 130-140.	3.6	2
52	Nanoscale structure and morphology of thin films of poly(2-chloroxylylene) synthesized by the CVD method on different liquids. <i>European Polymer Journal</i> , 2011, 47, 1725-1735.	5.4	3
53	Terracotta polychrome sculptures examined before and after their conservation work: contributions from non-invasive in situ analytical techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 757-765.	3.7	15
54	Photogenerated cumulenic structure of adamantyl endcapped linear carbon chains: An experimental and computational investigation based on infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2011, 134, 124512.	3.0	22

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55	Structure of Donor Molecule 9,9-Bis(Methoxymethyl)-Fluorene in Ziegler-Natta Catalyst by Infrared Spectroscopy and Quantum Chemical Calculation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11475-11484.	3.1	43
56	Stability and transformation mechanism of weddellite nanocrystals studied by X-ray diffraction and infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14560.	2.8	54
57	Hydrogen bonding in amylose/DMSO complexes studied by vibrational spectroscopy and density functional theory calculations. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1110-1116.	2.5	13
58	Anharmonic overtones quenching in Er <sup>3+</sup> complexes. <i>Synthetic Metals</i> , 2009, 159, 2410-2412.	3.9	8
59	Characterisation of an inclusion complex between cladribine and 2-hydroxypropyl- $\beta$ -cyclodextrin*** The work described in this article was carried out at Merck Serono SpA, Tiburtina Site, via L. Einaudi 11, 00012 Guidonia Montecelio, Roma, Italy. Some additional measurements were carried out at Dipartimento di Chimica, Materiali e Ingegneria Chimica "G. Natta", Politecnico di Milano, P. za Leonardo da Vinci 32, 20133 Milano, Italy. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 3897-3906.	3.3	12
60	Raman Dispersion and Intermolecular Interactions in Unsubstituted Thiophene Oligomers. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1271-1276.	2.6	62
61	Structure of MgCl <sub>2</sub> -TiCl <sub>4</sub> complex in co-milled Ziegler-Natta catalyst precursors with different TiCl <sub>4</sub> content: Experimental and theoretical vibrational spectra. <i>Journal of Molecular Catalysis A</i> , 2007, 263, 103-111.	4.8	92
62	Characterization of Naturally Weathered Polypropylene Plates. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006, 43, 535-554.	2.2	18
63	Nolomirole (CHF 1035): Polymorph detection from FT-Raman analysis. <i>Journal of Molecular Structure</i> , 2006, 788, 126-133.	3.6	0
64	Environmental degradation of a novel ethylene-propylene copolymer in thick sheets. <i>European Polymer Journal</i> , 2005, 41, 359-366.	5.4	22
65	Structure of new carbonaceous materials: The role of vibrational spectroscopy. <i>Carbon</i> , 2005, 43, 1593-1609.	10.3	92
66	Experimental Symmetry Assignment of the D Band: Evidence from the Raman Spectra of Soluble "Molecular Graphite". <i>AIP Conference Proceedings</i> , 2005, , .	0.4	1
67	Nanoscale architectures for molecular electronics: Vibrational spectroscopy and structure of solid hexa-n-dodecyl-hexa-peri-hexabenzocoronene. <i>Journal of Chemical Physics</i> , 2005, 123, 144706.	3.0	16
68	Adsorption of H <sub>2</sub> on carbon-based materials: A Raman spectroscopy study. <i>Physical Review B</i> , 2005, 71, .	3.2	36
69	Pyrolyzed Hexakis(p-bromophenyl)benzene as Anode Material for Li Batteries. <i>Journal of the Electrochemical Society</i> , 2005, 152, A2023.	2.9	5
70	Local Order in Liquid n-Alkanes: Evidence from Raman Spectroscopic Study. <i>Macromolecules</i> , 2005, 38, 3327-3333.	4.8	51
71	Experimental and calculated vibrational spectra and structure of Ziegler-Natta catalyst precursor: 50/1 comilled MgCl <sub>2</sub> -TiCl <sub>4</sub> . <i>Macromolecular Symposia</i> , 2004, 213, 287-302.	0.7	34
72	Wavelength-dependent Raman activity of D <sub>2h</sub> symmetry polycyclic aromatic hydrocarbons in the D-band and acoustic phonon regions. <i>Chemical Physics</i> , 2004, 301, 81-93.	1.9	43

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73	Environmental degradation of isotactic polypropylene plates as studied by positron annihilation lifetime spectroscopy. <i>Polymer</i> , 2003, 44, 1041-1044.	3.8	25
74	Chemical and physical modifications of alternating ethylene-carbon monoxide copolymer by outdoor exposure. <i>Polymer</i> , 2001, 42, 3609-3625.	3.8	4
75	Outdoor ageing of ethylene-carbon monoxide alternating copolymer. <i>Polymer Degradation and Stability</i> , 2000, 69, 133-142.	5.8	6
76	A Spectroscopic Approach to Carbon Materials for Energy Storage. , 0, , 23-53.		6