Chiara Castiglioni

List of Publications by Year
in descending order

214 papers	6,709 citations	61984 43 h-index	88630 70 g-index
219 all docs	219 docs citations	219 times ranked	6043 citing authors

#	Article	IF	Citations
1	Non-destructive Monitoring of Dye Depth Profile in Mesoporous TiO₂ Electrodes of Solar Cells with Micro-SORS. Analytical Chemistry, 2022, 94, 2966-2972.	6.5	2
2	Physico-Mechanical Properties of Metal Matrix Self-Lubricating Composites Reinforced with Traditional and Nanometric Particles. Lubricants, 2022, 10, 35.	2.9	6
3	Morphology and Intramolecular Interactions in P(VDF-TrFE) Electrospun Nanofibers Doped with Disperse Orange 3 Dye: A Joint Infrared Spectroscopy and Electron Microscopy Study. ACS Omega, 2022, 7, 10660-10673.	3.5	0
4	Vibrational properties of graphdiynes as 2D carbon materials beyond graphene. Physical Chemistry Chemical Physics, 2022, 24, 10524-10536.	2.8	6
5	Molecular and crystal structures of N-picryl-m-phenolidine and investigation of single crystal polarized Raman spectra. Journal of Molecular Structure, 2022, 1262, 133111.	3.6	1
6	Raman Fingerprints of Ï€-Electron Delocalization in Polythiophene-Based Insulated Molecular Wires. Macromolecules, 2022, 55, 3458-3468.	4.8	10
7	Nonâ€destructive analysis of concentration profiles in turbid media using microâ€spatially offset Raman spectroscopy: A physical model. Journal of Raman Spectroscopy, 2022, 53, 1592-1603.	2.5	1
8	Raman activity of the longitudinal optical phonons of the LiNbO₃ crystal: Experimental determination and quantum mechanical simulation. Journal of Raman Spectroscopy, 2022, 53, 1904-1914.	2.5	3
9	The correlation between experimental polarized Raman spectra and their density functional theory prediction in the LCAO framework: The R3c LiNbO₃ crystal as a test case. Journal of Raman Spectroscopy, 2021, 52, 995-1010.	2.5	9
10	Raman spectroscopy of holey nanographene C216. Journal of Raman Spectroscopy, 2021, 52, 2301-2316.	2.5	8
11	Micro-SORS, diffusion processes and heritage science: a non-destructive and systematic investigation. European Physical Journal Plus, 2021, 136, 1.	2.6	5
12	Driving Organic Nanocrystals Dissolution Through Electrochemistry. ChemistryOpen, 2021, 10, 748-755.	1.9	2
13	Vibrational and nonlinear optical properties of amine-capped push-pull polyynes by infrared and Raman spectroscopy. Carbon Trends, 2021, 5, 100115.	3.0	11
14	2,4,6-Trinitro-N-(m-tolyl)aniline: A New Polymorphic Material Exhibiting Different Colors. Crystal Growth and Design, 2021, 21, 7269-7284.	3.0	6
15	Size-selected polyynes synthesised by submerged arc discharge in water. Chemical Physics Letters, 2020, 740, 137054.	2.6	13
16	Evidence of graphite blister evolution during the anion de-intercalation process in the cathodic regime. Applied Surface Science, 2020, 504, 144440.	6.1	11
17	Immobilized Nano-TiO2 Photocatalysts for the Degradation of Three Organic Dyes in Single and Multi-Dye Solutions. Coatings, 2020, 10, 919.	2.6	8
18	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

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19	Polymorphism in 1-methylhydantoin: investigation by periodic DFT calculations and characterization of the third polymorph. CrystEngComm, 2020, 22, 6347-6359.	2.6	4
20	In situ synthesis of polyynes in a polymer matrix via pulsed laser ablation in a liquid. Materials Advances, 2020, 1, 2729-2736.	5.4	8
21	Non-invasive characterisation of molecular diffusion of agent into turbid matrix using micro-SORS. Talanta, 2020, 218, 121078.	5.5	9
22	Color polymorphism in organic crystals. Communications Chemistry, 2020, 3, .	4.5	60
23	Tuning the Solubility Parameters of Carbon Nanotubes by Means of Their Adducts with Janus Pyrrole Compounds. Nanomaterials, 2020, 10, 1176.	4.1	15
24	Nonâ€invasive and in situ investigation of layers sequence in panel paintings by portable microâ€spatially offset Raman spectroscopy. Journal of Raman Spectroscopy, 2020, 51, 2016-2021.	2.5	10
25	Exploiting Direct Current Plasma Electrolytic Oxidation to Boost Photoelectrocatalysis. Catalysts, 2020, 10, 325.	3.5	13
26	Reactive Dissolution of Organic Nanocrystals at Controlled pH. ChemNanoMat, 2020, 6, 567-575.	2.8	4
27	Raman and IR spectra of graphdiyne nanoribbons. Physical Review Materials, 2020, 4, .	2.4	13
28	Radiolytic degradation of hydrophilic PyTri ligands for minor actinide recycling. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 1663-1673.	1.5	10
29	Polaron Confinement in n-Doped P(NDI2OD-T2) Unveiled by Vibrational Spectroscopy. Chemistry of Materials, 2019, 31, 6726-6739.	6.7	25
30	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
31	Domino Reaction for the Sustainable Functionalization of Few-Layer Graphene. Nanomaterials, 2019, 9, 44.	4.1	22
32	Stone/Coating Interaction and Durability of Si-Based Photocatalytic Nanocomposites Applied to Porous Lithotypes. Materials, 2018, 11, 2289.	2.9	11
33	Mechanochromic Luminescent Tetrathiazolylthiophenes: Evaluating the Role of Intermolecular Interactions through Pressure and Temperature-Dependent Raman Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 17537-17543.	3.1	8
34	Static vs dynamic DFT prediction of IR spectra of flexible molecules in the condensed phase: The (ClCF) Tj ETQq0 0 0 rgBT /Overlock 10 T Spectroscopy, 2017, 183, 195-203.	3.9	1
35	Microscopic Analysis of the Different Perchlorate Anions Intercalation Stages of Graphite. Journal of Physical Chemistry C, 2017, 121, 14246-14253.	3.1	23
36	Diamond graphitization by laser-writing for all-carbon detector applications. Diamond and Related Materials, 2017, 75, 25-33.	3.9	26

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37	Combining Static and Dynamical Approaches for Infrared Spectra Calculations of Gas Phase Molecules and Clusters. Journal of Chemical Theory and Computation, 2017, 13, 3802-3813.	5.3	22
38	Chemical pathways in the partial oxidation and steam reforming of acetic acid over a Rh-Al 2 O 3 catalyst. Catalysis Today, 2017, 289, 162-172.	4.4	17
39	Evolution of the graphite surface in phosphoric acid: an AFM and Raman study. Beilstein Journal of Nanotechnology, 2016, 7, 1878-1884.	2.8	22
40	Intermolecular modulation of IR intensities in the solid state. The role of weak interactions in polyethylene crystal: A computational DFT study. Journal of Chemical Physics, 2016, 145, 144901.	3.0	14
41	Edge chlorination of hexa-peri-hexabenzocoronene investigated by density functional theory and vibrational spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 11869-11878.	2.8	17
42	Annular reactor testing and Raman surface characterization of the CPO of i-octane and n-octane on Rh based catalyst. Chemical Engineering Journal, 2016, 294, 9-21.	12.7	12
43	A C216-Nanographene Molecule with Defined Cavity as Extended Coronoid. Journal of the American Chemical Society, 2016, 138, 4322-4325.	13.7	90
44	Adding Four Extra K-Regions to Hexa-peri-hexabenzocoronene. Journal of the American Chemical Society, 2016, 138, 4726-4729.	13.7	52
45	Disclosing the Early Stages of Electrochemical Anion Intercalation in Graphite by a Combined Atomic Force Microscopy/Scanning Tunneling Microscopy Approach. Journal of Physical Chemistry C, 2016, 120, 6088-6093.	3.1	43
46	Physico chemical properties of irradiated i-SANEX diluents. Nukleonika, 2015, 60, 893-898.	0.8	6
47	Study of the absorption spectra of Fricke xylenol orange gel dosimeters. , 2015, , .		1
48	Bottomâ€Up Synthesis of Necklaceâ€Like Graphene Nanoribbons. Chemistry - an Asian Journal, 2015, 10, 2134-2138.	3.3	43
49	Overtone and combination features of G and D peaks in resonance Raman spectroscopy of the C₇₈H₂₆ polycyclic aromatic hydrocarbon. Journal of Raman Spectroscopy, 2015, 46, 757-764.	2.5	41
50	Outside rules inside: the role of electron-active substituents in thiophene-based heterophenoquinones. Physical Chemistry Chemical Physics, 2015, 17, 10426-10437.	2.8	12
51	Structural Characterization of Highly Oriented Naphthalene-Diimide-Bithiophene Copolymer Films via Vibrational Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 2062-2073.	2.6	19
52	Joint Experimental and Computational Investigation of the Structural and Spectroscopic Properties of Poly(vinylidene fluoride) Polymorphs. Journal of Physical Chemistry B, 2015, 119, 4888-4897.	2.6	31
53	Biobased Janus molecule for the facile preparation of water solutions of few layer graphene sheets. RSC Advances, 2015, 5, 81142-81152.	3.6	27
54	Radiation-induced modifications on physico chemical properties of diluted nitric acid solutions within advanced spent nuclear fuel reprocessing. Journal of Radioanalytical and Nuclear Chemistry, 2015, 304, 395-400.	1.5	9

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55	Chemical modification of HyflonÂ® AD copolymer end groups by means of physical and chemical treatments. A joint spectroscopic and quantum chemical investigation. Journal of Molecular Structure, 2015, 1090, 44-52.	3.6	2
56	Ï€-Conjugation and End Group Effects in Long Cumulenes: Raman Spectroscopy and DFT Calculations. Journal of Physical Chemistry C, 2014, 118, 26415-26425.	3.1	46
57	Anthracene/tetracene cocrystals as novel fluorophores in thin-film luminescent solar concentrators. RSC Advances, 2014, 4, 9893.	3.6	35
58	Annular reactor testing and Raman surface characterization in the CPO of methane and propylene. Applied Catalysis A: General, 2014, 474, 149-158.	4.3	12
59	Charge mobility in molecules: Charge fluxes from second derivatives of the molecular dipole. Journal of Chemical Physics, 2013, 138, 164115.	3.0	19
60	Structural and spectroscopic characterization of fluorinated dioxole based salts: a combined experimental and computational study. Journal of Molecular Structure, 2013, 1044, 109-115.	3.6	0
61	IR spectroscopy of crystalline polymers from ab initio calculations: Nylon 6,6. Vibrational Spectroscopy, 2013, 66, 83-92.	2.2	32
62	Structure and chain polarization of long polyynes investigated with infrared and Raman spectroscopy. Journal of Raman Spectroscopy, 2013, 44, 1398-1410.	2.5	50
63	Ab Initio Calculation of the IR Spectrum of PTFE: Helical Symmetry and Defects. Journal of Physical Chemistry B, 2013, 117, 706-718.	2.6	60
64	Molecular Level Investigation of the Film Structure of a High Electron Mobility Copolymer via Vibrational Spectroscopy. Macromolecules, 2013, 46, 2658-2670.	4.8	63
65	Infrared intensities and charge mobility in hydrogen bonded complexes. Journal of Chemical Physics, 2013, 139, 074304.	3.0	25
66	A Novel Classification Method for Multispectral Imaging Combined with Portable Raman Spectroscopy for the Analysis of a Painting by Vincent Van Gogh. Applied Spectroscopy, 2013, 67, 1234-1241.	2.2	20
67	Ab Initio Calculation of the Crystalline Structure and IR Spectrum of Polymers: Nylon 6 Polymorphs. Journal of Physical Chemistry B, 2012, 116, 8299-8311.	2.6	56
68	Predictive modeling of the vibrational quenching in emitting lanthanides complexes. Synthetic Metals, 2012, 161, 2693-2699.	3.9	20
69	Î¼â€Raman mapping to study calcium oxalate historical films. Journal of Raman Spectroscopy, 2012, 43, 1604-1611.	2.5	29
70	Tuning the Quinoid versus Biradicaloid Character of Thiophene-Based Heteroquaterphenoquinones by Means of Functional Groups. Journal of the American Chemical Society, 2012, 134, 19070-19083.	13.7	59
71	Atomic charges from IR intensity parameters: theory, implementation and application. Theoretical Chemistry Accounts, 2012, 131, 1.	1.4	24
72	Intramolecular and intermolecular OHâ€¦O and OHâ€¦F interactions in perfluoropolyethers with polar end groups: IR spectroscopy and first-principles calculations. European Polymer Journal, 2012, 48, 391-403.	5.4	14

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73	Intramolecular interactions in polymethylenic chains with polar end groups: The spectroscopic signature. Journal of Molecular Structure, 2012, 1009, 130-140.	3.6	2
74	Quantum-Chemical Insights into the Prediction of Charge Transport Parameters for a Naphthalenetetracarboxydiimide-Based Copolymer with Enhanced Electron Mobility. Journal of the American Chemical Society, 2011, 133, 19056-19059.	13.7	95
75	A joint Raman and EPR spectroscopic study on ball-milled nanographites. Chemical Physics Letters, 2011, 516, 220-224.	2.6	41
76	Solid-state synthesis of mixed trihalides via reversible absorption of dihalogens by non porous onium salts. CrystEngComm, 2011, 13, 4427.	2.6	38
77	Modulation of the electronic structure of polyconjugated organic molecules by geometry relaxation: A discussion based on local Raman parameters. Journal of Molecular Structure, 2011, 993, 26-37.	3.6	5
78	Coarseâ€Grained Simulations of Model Polymer Nanofibres. Macromolecular Theory and Simulations, 2011, 20, 305-319.	1.4	26
79	Ag and Au nanoparticles for SERS substrates produced by pulsed laser ablation. Crystal Research and Technology, 2011, 46, 836-840.	1.3	31
80	Hydrogen Bonding in Fluorinated Amides: FTIR, Two Dimensional Correlation Spectroscopy and DFT Calculations. Macromolecular Symposia, 2011, 305, 81-89.	0.7	5
81	Can Raman spectroscopy detect cumulenic structures of linear carbon chains?. Journal of Raman Spectroscopy, 2010, 41, 226-236.	2.5	26
82	Two dimensional correlation Raman spectroscopy of perfluoropolyethers: Effect of peroxide groups. Journal of Molecular Structure, 2010, 974, 73-79.	3.6	10
83	Biradicaloid Character of Thiopheneâ€Based Heterophenoquinones: The Role of Electronâ€“Phonon Coupling. ChemPhysChem, 2010, 11, 3685-3695.	2.1	43
84	Raman spectroscopic characterization of a thiopheneâ€based active material for resistive organic nonvolatile memories. Journal of Raman Spectroscopy, 2010, 41, 406-413.	2.5	6
85	Hydrogen bonding effects in perfluorinated polyamides: An investigation based on infrared spectroscopy and density functional theory calculations. Polymer, 2010, 51, 2597-2610.	3.8	20
86	Enhancing the light driven modulation of the refractive index in organic photochromic materials: A quantum chemical strategy. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 214, 61-68.	3.9	10
87	Molecular charge distribution and charge fluxes from Atomic Polar Tensors: The case of OH bonds. Journal of Molecular Structure, 2010, 976, 342-349.	3.6	21
88	Atomic charges from atomic polar tensors: A comparison of methods. Computational and Theoretical Chemistry, 2010, 955, 158-164.	1.5	27
89	Biradicaloid and Polyenic Character of Quinoidal Oligothiophenes Revealed by the Presence of a Low-Lying Double-Exciton State. Journal of Physical Chemistry Letters, 2010, 1, 3334-3339.	4.6	150
90	Resistive memories based on Rose Bengal and related xanthene derivatives: insights from modeling charge transport properties. Physical Chemistry Chemical Physics, 2010, 12, 1600.	2.8	16

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91	Modeling of Molecular Charge Distribution on the Basis of Experimental Infrared Intensities and First-Principles Calculations: The Case of CH Bonds. Journal of Physical Chemistry A, 2010, 114, 624-632.	2.5	40
92	FT-IR Spectroscopy and DFT Calculations on Fluorinated Macromer Diols: IR Intensity and Association Properties. Journal of Physical Chemistry B, 2010, 114, 6332-6336.	2.6	10
93	Hydrogen bonding in amylose/DMSO complexes studied by vibrational spectroscopy and density functional theory calculations. Journal of Raman Spectroscopy, 2009, 40, 1110-1116.	2.5	13
94	sp Carbon chain interaction with silver nanoparticles probed by Surface Enhanced Raman Scattering. Chemical Physics Letters, 2009, 478, 45-50.	2.6	40
95	Resistive Molecular Memories: Influence of Molecular Parameters on the Electrical Bistability. Journal of the American Chemical Society, 2009, 131, 6591-6598.	13.7	86
96	Anharmonic overtones quenching in Er3+ complexes. Synthetic Metals, 2009, 159, 2410-2412.	3.9	8
97	Vibrational overtones quenching of near infrared emission in Er3+ complexes. New Journal of Chemistry, 2009, 33, 1542.	2.8	26
98	Raman scattering of molecular graphenes. Physical Chemistry Chemical Physics, 2009, 11, 10185.	2.8	39
99	Spectroscopic studies and first-principles modelling of 2,2,4-trifluoro-5-trifluoromethoxy-1,3-dioxole (TTD) and TTDâ€“TFE copolymers (HyflonÂ® AD). Polymer, 2008, 49, 1812-1822.	3.8	34
100	Characterisation of an inclusion complex between cladribine and 2-hydroxypropyl-Î²-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 â€œG. Nattaâ€ Politecnico di Milano, P. za Leonardo da Vinci 32, 20133 Milano, Italy.. Journal of Pharmaceutical Sciences, 2008, 97, 3897-3906.	3.3	12
101	Firstâ€principles calculation of the Peierls distortion in an infinite linear carbon chain: the contribution of Raman spectroscopy. Journal of Raman Spectroscopy, 2008, 39, 164-168.	2.5	43
102	Modeling phonons of carbon nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2570-2576.	2.7	19
103	Structure and Electrical Bistability of a New Class of Diphenyl-bithiophenes: A Combined Theoretical and Experimental Study. Journal of Physical Chemistry C, 2008, 112, 18628-18637.	3.1	7
104	Modulation of the Refractive Index by Photoisomerization of Diarylethenes: Theoretical Modeling. Journal of Physical Chemistry A, 2008, 112, 7473-7480.	2.5	22
105	Infrared Intensity Studies in Fluorinated Macromolecules. Macromolecular Symposia, 2008, 265, 218-224.	0.7	9
106	Stabilization of linear carbon structures in a solid Ag nanoparticle assembly. Applied Physics Letters, 2007, 90, 013111.	3.3	50
107	Study of skeletal muscle cross-bridge population dynamics by second harmonic generation. , 2007, , .		1
108	Functional imaging of skeletal muscle fiber in different physiological states by second harmonic generation. , 2007, , .		0

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109	Intramolecular Vibrational Force Fields for Linear Carbon Chains through an Adaptative Linear Scaling Scheme. Journal of Physical Chemistry A, 2007, 111, 11645-11651.	2.5	45
110	Effective hamiltonian for ï€ electrons in linear carbon chains. Chemical Physics Letters, 2007, 450, 86-90.	2.6	10
111	Functional imaging of skeletal muscle fiber in different physiological states by Second Harmonic Generation. , 2007, , .		0
112	Characterization of Naturally Weathered Polypropylene Plates. Journal of Macromolecular Science - Pure and Applied Chemistry, 2006, 43, 535-554.	2.2	18
113	Raman and SERS investigation of isolated sp carbon chains. Chemical Physics Letters, 2006, 417, 78-82.	2.6	102
114	Nolomirole (CHF 1035): Polymorph detection from FT-Raman analysis. Journal of Molecular Structure, 2006, 788, 126-133.	3.6	0
115	Molecular conformations of a partially halogenated ether: A study based on infrared spectroscopy and density functional theory calculations. Journal of Fluorine Chemistry, 2006, 127, 320-329.	1.7	14
116	Assignment of theG+andGâ^'Raman bands of metallic and semiconducting carbon nanotubes based on a common valence force field. Physical Review B, 2006, 74, .	3.2	22
117	Carbon nanowires: Phonon andï€-electron confinement. Physical Review B, 2006, 74, .	3.2	59
118	Environmental degradation of a novel ethyleneâ€“propylene copolymer in thick sheets. European Polymer Journal, 2005, 41, 359-366.	5.4	22
119	Relaxing the graphite lattice along critical directions: The effect of the electronâ€“phonon coupling on the Ï€ electron band structure. Chemical Physics Letters, 2005, 414, 166-173.	2.6	13
120	Experimental Symmetry Assignment of the D Band: Evidence from the Raman Spectra of Soluble â€œMolecular Graphiteâ€• AIP Conference Proceedings, 2005, , .	0.4	1
121	Pyrolyzed Hexakis(p-bromophenyl)benzene as Anode Material for Li Batteries. Journal of the Electrochemical Society, 2005, 152, A2023.	2.9	5
122	Resonant Raman spectroscopy of nanostructured carbon-based materials: the molecular approach. AIP Conference Proceedings, 2004, , .	0.4	8
123	Raman spectroscopy of polyconjugated molecules and materials: confinement effect in one and two dimensions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 2425-2459.	3.4	248
124	Spectroscopic behaviour, bond properties and charge distribution in methoxy groups in hydrofluoroethers: the effect of neighbouring CF2 group. Computational and Theoretical Chemistry, 2004, 710, 151-162.	1.5	14
125	Perfluoropoly-ether/peroxide compounds: spectroscopic studies and quantum chemical calculations. Journal of Fluorine Chemistry, 2004, 125, 151-164.	1.7	8
126	Wavelength-dependent Raman activity of D2h symmetry polycyclic aromatic hydrocarbons in the D-band and acoustic phonon regions. Chemical Physics, 2004, 301, 81-93.	1.9	43

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127	Resonance Raman contribution to the D band of carbon materials: Modeling defects with quantum chemistry. Journal of Chemical Physics, 2004, 120, 11889-11900.	3.0	87
128	High purity multiwalled carbon nanotubes under high pressure and high temperature. Carbon, 2003, 41, 2361-2367.	10.3	24
129	Multi-wavelength Raman response of disordered graphitic materials: models and simulations. Synthetic Metals, 2003, 139, 885-888.	3.9	32
130	A Computational Study of the Raman Spectra of Large Polycyclic Aromatic Hydrocarbons:â€‰ Toward Molecularly Defined Subunits of Graphite. Journal of Physical Chemistry A, 2002, 106, 3306-3317.	2.5	131
131	Origin of the D line in the Raman spectrum of graphite: A study based on Raman frequencies and intensities of polycyclic aromatic hydrocarbon molecules. Journal of Chemical Physics, 2001, 114, 963.	3.0	140
132	Chemical and physical modifications of alternating ethyleneâ€“carbon monoxide copolymer by outdoor exposure. Polymer, 2001, 42, 3609-3625.	3.8	4
133	Density functional theory prediction of the vibrational spectra of polycyclic aromatic hydrocarbons: effect of molecular symmetry and size on Raman intensities. Journal of Molecular Structure, 2001, 563-564, 79-87.	3.6	33
134	Raman activation in disordered graphites of the A1â€² symmetry forbidden kâ‰0 phonon: The origin of the D line. Journal of Chemical Physics, 2001, 115, 3769-3778.	3.0	133
135	Infrared intensities. Use of the CH-stretching band intensity as a tool for evaluating the acidity of hydrogen atoms in hydrocarbons. Journal of Molecular Structure, 2000, 521, 1-18.	3.6	121
136	Experimental vibrational contributions to molecular hyperpolarisabilities: methods and measurements. Journal of Molecular Structure, 2000, 521, 137-155.	3.6	34
137	Outdoor ageing of ethyleneâ€“carbon monoxide alternating copolymer. Polymer Degradation and Stability, 2000, 69, 133-142.	5.8	6
138	Low-frequency vibrational modes and static vibrational hyperolarizabilities of long-chain molecules: polyenes and polyacetylene. Computational and Theoretical Chemistry, 2000, 500, 323-338.	1.5	7
139	Quantum mechanical calculations and spectroscopic analysis of fluorinated vinyl ether molecules. Journal of Fluorine Chemistry, 1999, 95, 105-116.	1.7	8
140	Relationship between infrared and Raman intensities in molecules with polarized Ï€ electrons. Journal of Molecular Structure, 1999, 480-481, 179-188.	3.6	57
141	Graphite and graphitic compounds: vibrational spectra from oligomers to real materials. Journal of Molecular Structure, 1999, 480-481, 615-620.	3.6	62
142	Calculation of vibrational cyclic redundancies in planar rings. Chemical Physics Letters, 1999, 314, 189-193.	2.6	1
143	Common force field for graphite and polycyclic aromatic hydrocarbons. Physical Review B, 1999, 60, 12710-12725.	3.2	201
144	New strategies for new organic molecules with large second order hyperpolarizabilities. Journal of the Chemical Society Perkin Transactions II, 1999, , 1765-1770.	0.9	9

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146	Chlorination of Poly[(1-trimethylsilyl)-1-propyne] Membrane. Macromolecules, 1999, 32, 7263-7268.	4.8	5
147	A relationship between Raman and infrared spectra: the case of pushâ€“pull molecules. Chemical Physics Letters, 1998, 287, 100-108.	2.6	48
148	Use of vibrational spectra for the determination of first-order molecular hyperpolarizabilities of push-pull polyenes as function of structural parameters. Journal of Applied Polymer Science, 1998, 70, 1311-1320.	2.6	30
149	Effect of bond length alternation and of bond length alternation oscillations on the molecular nonlinear optical response of push pull polyenes. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 308.	2.1	31
150	Reply to â€œComment on â€˜Molecular first hyperpolarizability of push-pull polyenes: Relationship between electronic and vibrational contribution by a two-state modelâ€™ â€• Physical Review B, 1997, 56, 2275-2276.	3.2	15
151	The vibrational approach to determine molecular nonlinearities: What do we learn from the method and the data?. Synthetic Metals, 1997, 85, 1043-1046.	3.9	14
152	From Vibrational Intensity Spectroscopy to Non-linear Optical Properties of Organic Molecules in Electronics and Photonics. , 1997, , 103-108.		0
153	Molecular first hyperpolarizability of push-pull polyenes: Relationship between electronic and vibrational contribution by a two-state model. Physical Review B, 1996, 53, 13319-13325.	3.2	128
154	NLO responses of organic materials: The vibrational approach. Advanced Materials, 1996, 8, 345-347.	21.0	10
155	Phonon, Ï€ electron localization and size of the charge carrier in paraâ€phenylenevinylene oligomers and polymer: A spectroscopic study. Journal of Chemical Physics, 1996, 105, 2509-2516.	3.0	15
156	Through bond and through space interactions in oligoâ€“alkoxythiophenes: A spectroscopic study. Journal of Chemical Physics, 1996, 105, 9461-9469.	3.0	14
157	Solvent effects on firstâ€order molecular hyperpolarizability: A study based on vibrational observables. Journal of Chemical Physics, 1995, 103, 9935-9940.	3.0	66
158	Molecular Hyperpolarizabilities from Vibrational Spectroscopy: Polyenovanillins. The Journal of Physical Chemistry, 1995, 99, 16242-16247.	2.9	38
159	Experimental molecular hyperpolarizabilities from vibrational spectra in systems with large electron-phonon coupling. Synthetic Metals, 1995, 74, 171-177.	3.9	56
160	Erratum to â€œExperimental molecular hyperpolarizabilities from vibrational spectra in systems with large electron-phonon couplingâ€•[Synthetic Metals 74 (1995) 171]. Synthetic Metals, 1995, 75, 255.	3.9	1
161	Response to the â€œcomment on â€œnon-linear optical response to strong applied electromagnetic fields in polyconjugated materialsâ€•by M. Del Zoppo, C. Castiglioni, G. Zerbi, M. Rui and M. Gussoniâ€•by D.M. Bishop. Synthetic Metals, 1995, 68, 295-296.	3.9	4
162	Hyperconjugation from infrared intensities: the case of methyl acetate and of its selectively deuterated derivatives. Journal of Molecular Structure, 1994, 324, 189-198.	3.6	29

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163	The trans effect of lone pairs on individual X-H bonds (X = C or N). An ab initio study. Computational and Theoretical Chemistry, 1994, 305, 19-25.	1.5	18
164	Vibrational Analysis as a Tool for Detecting Electronic Mobility. The Case of the Alternating Ethylene-Tetrafluoroethylene Copolymers. Macromolecules, 1994, 27, 2194-2199.	4.8	22
165	Confinement potential and Ï€-electron delocalization in polyconjugated organic materials. Physical Review B, 1994, 50, 9815-9823.	3.2	184
166	Vibrational Raman spectroscopy of polyconjugated organic oligomers and polymers. Journal of Raman Spectroscopy, 1993, 24, 485-494.	2.5	143
167	Nuclear contribution to hyperpolarizability of polyconjugated compounds: role of vibrational intensities. Synthetic Metals, 1993, 57, 3919-3926.	3.9	28
168	Stereoelectronic Effects in Polythiophenes. Molecular Crystals and Liquid Crystals, 1993, 236, 181-188.	0.3	10
169	Molecular optics. , 1993, , 27-59.		1
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