Matteo Tommasini

List of Publications by Year
in descending order

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176	5,280	71102	114465
papers	citations	41 h-index	63 g-index

183	183	183	6291
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sliding on snow of Aisi 301 stainless steel surfaces treated with ultra-short laser pulses. Applied Surface Science Advances, 2022, 7, 100194.	6.8	3
2	Raman Spectroscopy-Based Assessment of the Liquid Water Content in Snow. Molecules, 2022, 27, 626.	3.8	4
3	Monitoring flame soot maturity by variable temperature Raman spectroscopy. Fuel, 2022, 321, 124006.	6.4	5
4	Cove-Edged Graphene Nanoribbons with Incorporation of Periodic Zigzag-Edge Segments. Journal of the American Chemical Society, 2022, 144, 228-235.	13.7	28
5	Sensing the Anti-Epileptic Drug Perampanel with Paper-Based Spinning SERS Substrates. Molecules, 2022, 27, 30.	3.8	4
6	UV Resonance Raman Spectroscopy of weakly hydrogen-bonded water in the liquid phase and on ice and snow surfaces. Physical Chemistry Chemical Physics, 2022, , .	2.8	0
7	Vibrational properties of graphdiynes as 2D carbon materials beyond graphene. Physical Chemistry Chemical Physics, 2022, 24, 10524-10536.	2.8	6
8	The effects of ring strain on cyclic tetraaryl[5]cumulenes. Chemistry - A European Journal, 2022, , .	3.3	0
9	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
10	Propagation in outdoor environments of aerosol droplets produced by breath and light cough. Aerosol Science and Technology, 2021, 55, 340-351.	3.1	12
11	Solvent-mediated engineering of copper-metalated acetylenic polymer scaffolds with enhanced photoelectrochemical performance. Journal of Materials Chemistry A, 2021, 9, 9729-9734.	10.3	5
12	Structural and Spectroscopic Properties of Benzoylpyridineâ€Based Hydrazones. ChemPhysChem, 2021, 22, 533-541.	2.1	5
13	Persistent periâ€Heptacene: Synthesis and In Situ Characterization. Angewandte Chemie, 2021, 133, 13972-13977.	2.0	11
14	Persistent periâ€Heptacene: Synthesis and In Situ Characterization. Angewandte Chemie - International Edition, 2021, 60, 13853-13858.	13.8	27
15	Raman spectroscopy of holey nanographene C216. Journal of Raman Spectroscopy, 2021, 52, 2301-2316.	2.5	8
16	Analysis of the Jahn-Teller effect in coronene and corannulene ions and its effect in EPR spectroscopy. Chemical Physics Impact, 2021, 2, 100012.	3.5	3
17	Pyrrole-Embedded Linear and Helical Graphene Nanoribbons. Journal of the American Chemical Society, 2021, 143, 11302-11308.	13.7	26
18	A Bioorthogonal Probe for Multiscale Imaging by ¹⁹F-MRI and Raman Microscopy: From Whole Body to Single Cells. Journal of the American Chemical Society, 2021, 143, 12253-12260.	13.7	29

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19	2,12-Diaza[6]helicene: An Efficient Non-Conventional Stereogenic Scaffold for Enantioselective Electrochemical Interphases. Chemosensors, 2021, 9, 216.	3.6	5
20	Topology-dependent conjugation effects in graphdiyne molecular fragments. Carbon, 2021, 180, 265-273.	10.3	11
21	Vibrational and nonlinear optical properties of amine-capped push-pull polyynes by infrared and Raman spectroscopy. Carbon Trends, 2021, 5, 100115.	3.0	11
22	On the performance of laser-synthesized, SERS-based sensors for drug detection. Applied Surface Science, 2020, 507, 145109.	6.1	10
23	Size-selected polyynes synthesised by submerged arc discharge in water. Chemical Physics Letters, 2020, 740, 137054.	2.6	13
24	Evidence of graphite blister evolution during the anion de-intercalation process in the cathodic regime. Applied Surface Science, 2020, 504, 144440.	6.1	11
25	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
26	High response photochromic films based on Dâ€“A diarylethenes and their application in holography. RSC Advances, 2020, 10, 26177-26187.	3.6	6
27	Nanoparticles Engineering by Pulsed Laser Ablation in Liquids: Concepts and Applications. Nanomaterials, 2020, 10, 2317.	4.1	140
28	A Raman and SERS study on the interactions of aza[5]helicene and aza[6]helicene with a nanostructured gold surface. Vibrational Spectroscopy, 2020, 111, 103180.	2.2	0
29	Hexa-peri-benzocoronene with two extra K-regions in an ortho-configuration. Chemical Science, 2020, 11, 12816-12821.	7.4	10
30	N-Doped Graphene Oxide Nanoparticles Studied by EPR. Applied Magnetic Resonance, 2020, 51, 1481-1495.	1.2	6
31	Plasmonic Superchiral Lattice Resonances in the Mid-Infrared. ACS Photonics, 2020, 7, 2676-2681.	6.6	26
32	Electric-Field-Induced Effects on the Dipole Moment and Vibrational Modes of the Centrosymmetric Indigo Molecule. Journal of Physical Chemistry A, 2020, 124, 10856-10869.	2.5	18
33	On the Optical Properties of Agâ€“Au Colloidal Alloys Pulsed Laser Ablated in Liquid: Experiments and Theory. Journal of Physical Chemistry C, 2020, 124, 24930-24939.	3.1	10
34	Synthesis of Natural-Like Snow by Ultrasonic Nebulization of Water: Morphology and Raman Characterization. Molecules, 2020, 25, 4458.	3.8	3
35	The contribution of surfaces to the Raman spectrum of snow. Applied Surface Science, 2020, 515, 146029.	6.1	7
36	Reactive Dissolution of Organic Nanocrystals at Controlled pH. ChemNanoMat, 2020, 6, 567-575.	2.8	4

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37	Raman and IR spectra of graphdiyne nanoribbons. Physical Review Materials, 2020, 4, .	2.4	13
38	Four-Fold Alkyne Benzannulation: Synthesis, Properties, and Structure of Pyreno[a]pyrene-Based Helicene Hybrids. Organic Letters, 2019, 21, 8652-8656.	4.6	32
39	3D Multi-Branched SnO2 Semiconductor Nanostructures as Optical Waveguides. Materials, 2019, 12, 3148.	2.9	1
40	A topological model for predicting adsorption energies of polycyclic aromatic hydrocarbons on late-transition metal surfaces. Reaction Chemistry and Engineering, 2019, 4, 410-417.	3.7	2
41	Conformational assignment of gas phase peptides and their H-bonded complexes using far-IR/THz: IR-UV ion dip experiment, DFT-MD spectroscopy, and graph theory for mode assignment. Faraday Discussions, 2019, 217, 67-97.	3.2	13
42	Polaron Confinement in n-Doped P(NDI2OD-T2) Unveiled by Vibrational Spectroscopy. Chemistry of Materials, 2019, 31, 6726-6739.	6.7	25
43	Laser-Synthesized SERS Substrates as Sensors toward Therapeutic Drug Monitoring. Nanomaterials, 2019, 9, 677.	4.1	21
44	Pulsed laser deposition of gold thin films with long-range spatial uniform SERS activity. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	12
45	Structure modulated charge transfer in carbon atomic wires. Scientific Reports, 2019, 9, 1648.	3.3	26
46	Evaluation of Molecular Polarizability and of Intensity Carrying Modes Contributions in Circular Dichroism Spectroscopies. Applied Sciences (Switzerland), 2019, 9, 4691.	2.5	5
47	Slit Arrays for Plasmon-enhanced Vibrational Circular Dichroism: Characterization of the Local Field Enhancement. , 2019, , .		0
48	Experimental Characterization of Polymer Surfaces Subject to Corona Discharges in Controlled Atmospheres. Polymers, 2019, 11, 1646.	4.5	13
49	Effect of Gamma Irradiation on Fully Aliphatic Poly(Propylene/Neopentyl Cyclohexanedicarboxylate) Random Copolymers. Journal of Polymers and the Environment, 2018, 26, 3017-3033.	5.0	5
50	Toward Thiopheneâ€Annulated Graphene Nanoribbons. Angewandte Chemie - International Edition, 2018, 57, 3588-3592.	13.8	36
51	Toward Thiopheneâ€Annulated Graphene Nanoribbons. Angewandte Chemie, 2018, 130, 3650-3654.	2.0	14
52	Copper-surface-mediated synthesis of acetylenic carbon-rich nanofibers for active metal-free photocathodes. Nature Communications, 2018, 9, 1140.	12.8	115
53	Protein-Metal Interactions Probed by SERS: Lysozyme on Nanostructured Gold Surface. Plasmonics, 2018, 13, 2117-2124.	3.4	10
54	OFF/ON switching of circularly polarized luminescence by oxophilic interaction of homochiral sulfoxide-containing o-OPEs with metal cations. Chemical Communications, 2018, 54, 13985-13988.	4.1	53

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55	Laser Synthesized Nanoparticles for Therapeutic Drug Monitoring. Springer Series in Materials Science, 2018, , 339-360.	0.6	2
56	Functionalization of nanostructured gold substrates with chiral chromophores for SERS applications: The case of 5â€Aza[5]helicene. Chirality, 2018, 30, 875-882.	2.6	8
57	Synthesis by picosecond laser ablation of ligand-free Ag and Au nanoparticles for SERS applications. EPJ Web of Conferences, 2018, 167, 05002.	0.3	2
58	SERS sensing of perampanel with nanostructured arrays of gold particles produced by pulsed laser ablation in water. Medical Devices & Sensors, 2018, 1, e10003.	2.7	5
59	A deep insight into the intrinsic healing mechanism in ureidoâ€pyrimidinone copolymers. Polymers for Advanced Technologies, 2018, 29, 2899-2908.	3.2	11
60	Precise determination of the orientation of the transition dipole moment in a Bodipy derivative by analysis of the magnetophotoselection effect. Physical Chemistry Chemical Physics, 2018, 20, 20497-20503.	2.8	28
61	Synthesis of Triply Fused Porphyrinâ€Nanographene Conjugates. Angewandte Chemie - International Edition, 2018, 57, 11233-11237.	13.8	50
62	Bottom-Up Synthesis of Heteroatom-Doped Chiral Graphene Nanoribbons. Journal of the American Chemical Society, 2018, 140, 9104-9107.	13.7	110
63	Synthesis of Triply Fused Porphyrinâ€Nanographene Conjugates. Angewandte Chemie, 2018, 130, 11403-11407.	2.0	18
64	Infrared and multiâ€wavelength Raman spectroscopy of regioâ€regular P3HT and its deutero derivatives. Journal of Raman Spectroscopy, 2018, 49, 569-580.	2.5	16
65	Laser tailored nanoparticle arrays to detect molecules at dilute concentration. Applied Surface Science, 2017, 396, 1866-1874.	6.1	9
66	Fully Solutionâ€Processed nâ€“iâ€“pâ€Like Perovskite Solar Cells with Planar Junction: How the Charge Extracting Layer Determines the Openâ€Circuit Voltage. Advanced Materials, 2017, 29, 1604493.	21.0	50
67	Physiological and biochemical impacts of graphene oxide in polychaetes: The case of Diopatra neapolitana. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2017, 193, 50-60.	2.6	24
68	Persulfurated Coronene: A New Generation of â€œSulflowerâ€. Journal of the American Chemical Society, 2017, 139, 2168-2171.	13.7	89
69	Helically Coiled Graphene Nanoribbons. Angewandte Chemie - International Edition, 2017, 56, 6213-6217.	13.8	103
70	Semiconductor-to-Metal Transition in Carbon-Atom Wires Driven by sp² Conjugated End Groups. Journal of Physical Chemistry C, 2017, 121, 10562-10570.	3.1	43
71	Innentitelbild: Helically Coiled Graphene Nanoribbons (Angew. Chem. 22/2017). Angewandte Chemie, 2017, 129, 6040-6040.	2.0	0
72	Galvanic Displaced Nickel-Silicon and Copper-Silicon Interfaces: A DFT Investigation. ECS Transactions, 2017, 75, 7-13.	0.5	1

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73	Microscopic Analysis of the Different Perchlorate Anions Intercalation Stages of Graphite. Journal of Physical Chemistry C, 2017, 121, 14246-14253.	3.1	23
74	Firstâ€Principles Simulation of Raman Spectra of Adsorbates on Metal Surfaces. ChemPlusChem, 2017, 82, 924-932.	2.8	6
75	Heteroatom-Doped Perihexacene from a Double Helicene Precursor: On-Surface Synthesis and Properties. Journal of the American Chemical Society, 2017, 139, 4671-4674.	13.7	61
76	Helically Coiled Graphene Nanoribbons. Angewandte Chemie, 2017, 129, 6309-6313.	2.0	39
77	Chiral Peropyrene: Synthesis, Structure, and Properties. Journal of the American Chemical Society, 2017, 139, 13102-13109.	13.7	99
78	Design and testing of an operando-Raman annular reactor for kinetic studies in heterogeneous catalysis. Reaction Chemistry and Engineering, 2017, 2, 908-918.	3.7	5
79	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
80	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
81	Evolution of the graphite surface in phosphoric acid: an AFM and Raman study. Beilstein Journal of Nanotechnology, 2016, 7, 1878-1884.	2.8	22
82	Synthesis by pulsed laser ablation of 2D nanostructures for advanced biomedical sensing. Journal of Instrumentation, 2016, 11, C05006-C05006.	1.2	3
83	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
84	Nonlinear Optical Properties of Polyynes: An Experimental Prediction for Carbyne. Journal of Physical Chemistry C, 2016, 120, 11131-11139.	3.1	28
85	SERS detection and DFT calculation of 2-naphthalene thiol adsorbed on Ag and Au probes. Sensors and Actuators B: Chemical, 2016, 237, 545-555.	7.8	30
86	Light-induced dipole moment modulation in diarylethenes: a fundamental study. Physical Chemistry Chemical Physics, 2016, 18, 31154-31159.	2.8	7
87	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
88	Bottom-Up Synthesis of Soluble and Narrow Graphene Nanoribbons Using Alkyne Benzannulations. Journal of the American Chemical Society, 2016, 138, 9137-9144.	13.7	181
89	A C216-Nanographene Molecule with Defined Cavity as Extended Coronoid. Journal of the American Chemical Society, 2016, 138, 4322-4325.	13.7	90
90	Adding Four Extra K-Regions to Hexa-peri-hexabenzocoronene. Journal of the American Chemical Society, 2016, 138, 4726-4729.	13.7	52

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91	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
92	Meeting the Challenging Magnetic and Electronic Structure of Thiophene-Based Heterophenoquinones. Journal of Physical Chemistry C, 2016, 120, 5732-5740.	3.1	10
93	Effect of potassium on a model soot combustion: Raman and HRTEM evidences. Aerosol Science and Technology, 2016, 50, 405-415.	3.1	12
94	Carbon-atom wires: 1-D systems with tunable properties. Nanoscale, 2016, 8, 4414-4435.	5.6	221
95	Fingerprints of polycyclic aromatic hydrocarbons (PAHs) in infrared absorption spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 152, 134-148.	3.9	48
96	The connection between robustness angles and dissymmetry factors in vibrational circular dichroism spectra. Chemical Physics Letters, 2015, 639, 320-325.	2.6	24
97	Bottomâ€Up Synthesis of Necklaceâ€Like Graphene Nanoribbons. Chemistry - an Asian Journal, 2015, 10, 2134-2138.	3.3	43
98	Raman spectroscopy of carbonaceous particles of environmental interest. Journal of Raman Spectroscopy, 2015, 46, 1215-1224.	2.5	11
99	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
100	Au nanoparticle-based sensor for apomorphine detection in plasma. Beilstein Journal of Nanotechnology, 2015, 6, 2224-2232.	2.8	12
101	Raman spectroscopy as a tool to investigate the structure and electronic properties of carbon-atom wires. Beilstein Journal of Nanotechnology, 2015, 6, 480-491.	2.8	83
102	Near IR to Red Up-Conversion in Tetracene/Pentacene Host/Guest Cocrystals Enhanced by Energy Transfer from Host to Guest. Journal of Physical Chemistry C, 2015, 119, 17495-17501.	3.1	15
103	Understanding the Origin of the VCD Signals on the Basis of a Nonredundant Coordinate Definition. Journal of Chemical Theory and Computation, 2015, 11, 2633-2641.	5.3	2
104	Laser Controlled Synthesis of Noble Metal Nanoparticle Arrays for Low Concentration Molecule Recognition. Micromachines, 2014, 5, 1296-1309.	2.9	15
105	Theoretical investigation and computational evaluation of overtone and combination features in resonance Raman spectra of polyenes and carotenoids. Journal of Raman Spectroscopy, 2014, 45, 89-96.	2.5	9
106	Mode Robustness in Raman Optical Activity. Journal of Chemical Theory and Computation, 2014, 10, 5520-5527.	5.3	23
107	Helical Sense-Responsive and Substituent-Sensitive Features in Vibrational and Electronic Circular Dichroism, in Circularly Polarized Luminescence, and in Raman Spectra of Some Simple Optically Active Hexahelicenes. Journal of Physical Chemistry C, 2014, 118, 1682-1695.	3.1	135
108	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

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109	Molecular interactions of DNA with transfectants: a study based on infrared spectroscopy and quantum chemistry as aids to fluorescence spectroscopy and dynamic light scattering analyses. RSC Advances, 2014, 4, 49620-49627.	3.6	10
110	SERS activity of silver and gold nanostructured thin films deposited by pulsed laser ablation. Applied Physics A: Materials Science and Processing, 2014, 117, 347-351.	2.3	19
111	Regio-Regular Oligo and Poly(3-hexyl thiophene): Precise Structural Markers from the Vibrational Spectra of Oligomer Single Crystals.. Macromolecules, 2014, 47, 6730-6739.	4.8	42
112	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
113	Structure and chain polarization of long polyynes investigated with infrared and Raman spectroscopy. Journal of Raman Spectroscopy, 2013, 44, 1398-1410.	2.5	50
114	Raman and ROA Spectra of (â^')- and (+)-2-Br-Hexahelicene: Experimental and DFT Studies of a Ï€-Conjugated Chiral System. Journal of Physical Chemistry B, 2013, 117, 2221-2230.	2.6	42
115	Electronic and vibrational circular dichroism spectra of (R)-(â^')-apomorphine. Chemical Physics, 2012, 405, 197-205.	1.9	6
116	TLCâ€“surface enhanced Raman scattering of apomorphine in human plasma. Vibrational Spectroscopy, 2012, 62, 286-291.	2.2	40
117	Absolute Raman intensity measurements and determination of the vibrational second hyperpolarizability of adamantyl endcapped polyynes. Journal of Raman Spectroscopy, 2012, 43, 1293-1298.	2.5	30
118	Raman spectroscopy of polyconjugated molecules with electronic and mechanical confinement: the spectrum of Corallium rubrum. Journal of Raman Spectroscopy, 2012, 43, 1449-1458.	2.5	31
119	Metalâ€Filled Carbon Nanotubes as a Novel Class of Photothermal Nanomaterials. Advanced Materials, 2012, 24, 2453-2458.	21.0	56
120	Atomic charges from IR intensity parameters: theory, implementation and application. Theoretical Chemistry Accounts, 2012, 131, 1.	1.4	24
121	Bent polyynes: ring geometry studied by Raman and IR spectroscopy. Journal of Raman Spectroscopy, 2012, 43, 95-101.	2.5	27
122	Charge Transfer and Vibrational Structure of sp-Hybridized Carbon Atomic Wires Probed by Surface Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 12836-12843.	3.1	56
123	A joint Raman and EPR spectroscopic study on ball-milled nanographites. Chemical Physics Letters, 2011, 516, 220-224.	2.6	41
124	Retinal in bacteriorhodopsin and related molecular models investigated with Raman spectroscopy and density functional theory calculations. Journal of Raman Spectroscopy, 2011, 42, 1207-1214.	2.5	7
125	Raman and SERS recognition of Î²-carotene and haemoglobin fingerprints in human whole blood. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 79, 915-919.	3.9	65
126	Two dimensional correlation Raman spectroscopy of perfluoropolyethers: Effect of peroxide groups. Journal of Molecular Structure, 2010, 974, 73-79.	3.6	10

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127	A density matrix based approach for studying excitons in organic crystals. Chemical Physics Letters, 2010, 496, 284-290.	2.6	11
128	Toward carbyne: Synthesis and stability of really long polyynes. Pure and Applied Chemistry, 2010, 82, 891-904.	1.9	59
129	Simple Synthesis of Î±,Ï‰-Diarylpolyynes Part 1: Diphenylpolyynes. Journal of Macromolecular Science - Pure and Applied Chemistry, 2010, 47, 739-746.	2.2	21
130	Connection among Raman wavenumbers, bond length alternation and energy gap in polyynes. Journal of Raman Spectroscopy, 2009, 40, 1931-1934.	2.5	44
131	Experimental and theoretical investigation of the apomorphine Raman spectrum. Journal of Raman Spectroscopy, 2009, 40, 2074-2079.	2.5	5
132	sp Carbon chain interaction with silver nanoparticles probed by Surface Enhanced Raman Scattering. Chemical Physics Letters, 2009, 478, 45-50.	2.6	40
133	Raman scattering of molecular graphenes. Physical Chemistry Chemical Physics, 2009, 11, 10185.	2.8	39
134	Evidence for Solution-State Nonlinearity of sp-Carbon Chains Based on IR and Raman Spectroscopy: Violation of Mutual Exclusion. Journal of the American Chemical Society, 2009, 131, 4239-4244.	13.7	93
135	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
136	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
137	Modeling phonons of carbon nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2570-2576.	2.7	19
138	Low-frequency modes in the Raman spectrum of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>s</mml:mi><mml:mi>p</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>s</mml:mi><mml:msu carbon. Physical Review B, 2008, 77, .	3.2	69
139	Carbynes phonons: A tight binding force field. Journal of Chemical Physics, 2008, 128, 064501.	3.0	35
140	The Effect of Intermolecular Dipoleâ^'Dipole Interaction on Raman Spectra of Polyconjugated Molecules:â€‰ Density Functional Theory Simulations and Mathematical Models. Journal of Physical Chemistry B, 2008, 112, 1619-1625.	2.6	8
141	Infrared Intensity Studies in Fluorinated Macromolecules. Macromolecular Symposia, 2008, 265, 218-224.	0.7	9
142	Stabilization of linear carbon structures in a solid Ag nanoparticle assembly. Applied Physics Letters, 2007, 90, 013111.	3.3	50
143	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
144	Effective hamiltonian for Ï€ electrons in linear carbon chains. Chemical Physics Letters, 2007, 450, 86-90.	2.6	10

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145	Raman and SERS investigation of isolated sp carbon chains. Chemical Physics Letters, 2006, 417, 78-82.	2.6	102
146	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
147	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
148	Carbon nanowires: Phonon andÏ€-electron confinement. Physical Review B, 2006, 74, .	3.2	59
149	The hydrogen molecule in strong electrostatic fields: A theoretical vibrational spectroscopy study. Chemical Physics Letters, 2005, 405, 108-113.	2.6	4
150	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
151	Experimental Symmetry Assignment of the D Band: Evidence from the Raman Spectra of Soluble â€œMolecular Graphiteâ€. AIP Conference Proceedings, 2005, , .	0.4	1
152	Resonant Raman spectroscopy of nanostructured carbon-based materials: the molecular approach. AIP Conference Proceedings, 2004, , .	0.4	8
153	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
154	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
155	Perfluoropoly-ether/peroxide compounds: spectroscopic studies and quantum chemical calculations. Journal of Fluorine Chemistry, 2004, 125, 151-164.	1.7	8
156	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
157	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
158	The electronic structure of achiral nanotubes: a symmetry based treatment. AIP Conference Proceedings, 2004, , .	0.4	0
159	Multi-wavelength Raman response of disordered graphitic materials: models and simulations. Synthetic Metals, 2003, 139, 885-888.	3.9	32
160	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
161	Excited-State Molecular Dynamics Simulations of Conjugated Oligomers Using the Electronic Density Matrix. Journal of Physical Chemistry A, 2001, 105, 7057-7071.	2.5	7
162	Raman spectroscopy of molecular models for the detection and the study of carbon nanostructures in graphitic materials. AIP Conference Proceedings, 2001, , .	0.4	0

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163	Chemical and physical modifications of alternating ethyleneâ€“carbon monoxide copolymer by outdoor exposure. Polymer, 2001, 42, 3609-3625.	3.8	4
164	Electronic density-matrix algorithm for nonadiabatic couplings in molecular dynamics simulations. International Journal of Quantum Chemistry, 2001, 85, 225-238.	2.0	61
165	Molecular Dynamics Simulations of Collective Electronic and Nuclear Modes in Conjugated Systems. Springer Series in Chemical Physics, 2001, , 595-597.	0.2	0
166	Experimental vibrational contributions to molecular hyperpolarisabilities: methods and measurements. Journal of Molecular Structure, 2000, 521, 137-155.	3.6	34
167	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
168	Molecular Dynamics Simulations of Collective Electronic and Nuclear Modes in Conjugated Systems. , 2000, , .		0
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