

# Matteo Tommasini

## List of Publications by Year in descending order

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176  
papers

5,280  
citations

71102

41  
h-index

114465

63  
g-index

183  
all docs

183  
docs citations

183  
times ranked

6291  
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman spectroscopy of polyconjugated molecules and materials: confinement effect in one and two dimensions. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 2425-2459.	3.4	248
2	Carbon-atom wires: 1-D systems with tunable properties. <i>Nanoscale</i> , 2016, 8, 4414-4435.	5.6	221
3	Bottom-Up Synthesis of Soluble and Narrow Graphene Nanoribbons Using Alkyne Benzannulations. <i>Journal of the American Chemical Society</i> , 2016, 138, 9137-9144.	13.7	181
4	Nanoparticles Engineering by Pulsed Laser Ablation in Liquids: Concepts and Applications. <i>Nanomaterials</i> , 2020, 10, 2317.	4.1	140
5	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. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1682-1695.	3.1	135
6	A Computational Study of the Raman Spectra of Large Polycyclic Aromatic Hydrocarbons: Toward Molecularly Defined Subunits of Graphite. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3306-3317.	2.5	131
7	Copper-surface-mediated synthesis of acetylenic carbon-rich nanofibers for active metal-free photocathodes. <i>Nature Communications</i> , 2018, 9, 1140.	12.8	115
8	Bottom-Up Synthesis of Heteroatom-Doped Chiral Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2018, 140, 9104-9107.	13.7	110
9	Helically Coiled Graphene Nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6213-6217.	13.8	103
10	Raman and SERS investigation of isolated sp carbon chains. <i>Chemical Physics Letters</i> , 2006, 417, 78-82.	2.6	102
11	Chiral Peropyrene: Synthesis, Structure, and Properties. <i>Journal of the American Chemical Society</i> , 2017, 139, 13102-13109.	13.7	99
12	Evidence for Solution-State Nonlinearity of sp-Carbon Chains Based on IR and Raman Spectroscopy: Violation of Mutual Exclusion. <i>Journal of the American Chemical Society</i> , 2009, 131, 4239-4244.	13.7	93
13	A C216-Nanographene Molecule with Defined Cavity as Extended Coronoid. <i>Journal of the American Chemical Society</i> , 2016, 138, 4322-4325.	13.7	90
14	Persulfurated Coronene: A New Generation of "Sulflower". <i>Journal of the American Chemical Society</i> , 2017, 139, 2168-2171.	13.7	89
15	Resonance Raman contribution to the D band of carbon materials: Modeling defects with quantum chemistry. <i>Journal of Chemical Physics</i> , 2004, 120, 11889-11900.	3.0	87
16	Raman spectroscopy as a tool to investigate the structure and electronic properties of carbon-atom wires. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 480-491.	2.8	83
17	Low-frequency modes in the Raman spectrum of $s_p$ carbon. <i>Physical Review B</i> , 2008, 77, .	3.2	69
18	Raman and SERS recognition of $\beta$ -carotene and haemoglobin fingerprints in human whole blood. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 915-919.	3.9	65

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19	P(VDF-TrFE) nanofibers: structure of the ferroelectric and paraelectric phases through IR and Raman spectroscopies. <i>RSC Advances</i> , 2020, 10, 37779-37796.	3.6	65
20	Electronic density-matrix algorithm for nonadiabatic couplings in molecular dynamics simulations. <i>International Journal of Quantum Chemistry</i> , 2001, 85, 225-238.	2.0	61
21	Heteroatom-Doped Perihexacene from a Double Helicene Precursor: On-Surface Synthesis and Properties. <i>Journal of the American Chemical Society</i> , 2017, 139, 4671-4674.	13.7	61
22	Carbon nanowires: Phonon and $\pi$ -electron confinement. <i>Physical Review B</i> , 2006, 74, .	3.2	59
23	Toward carbyne: Synthesis and stability of really long polyynes. <i>Pure and Applied Chemistry</i> , 2010, 82, 891-904.	1.9	59
24	Relationship between infrared and Raman intensities in molecules with polarized $\pi$ electrons. <i>Journal of Molecular Structure</i> , 1999, 480-481, 179-188.	3.6	57
25	Charge Transfer and Vibrational Structure of <i>sp</i> -Hybridized Carbon Atomic Wires Probed by Surface Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12836-12843.	3.1	56
26	Metal-Filled Carbon Nanotubes as a Novel Class of Photothermal Nanomaterials. <i>Advanced Materials</i> , 2012, 24, 2453-2458.	21.0	56
27	OFF/ON switching of circularly polarized luminescence by oxophilic interaction of homochiral sulfoxide-containing $\pi$ -OPEs with metal cations. <i>Chemical Communications</i> , 2018, 54, 13985-13988.	4.1	53
28	Adding Four Extra K-Regions to Hexa- <i>peri</i> -hexabenzocoronene. <i>Journal of the American Chemical Society</i> , 2016, 138, 4726-4729.	13.7	52
29	Stabilization of linear carbon structures in a solid Ag nanoparticle assembly. <i>Applied Physics Letters</i> , 2007, 90, 013111.	3.3	50
30	Structure and chain polarization of long polyynes investigated with infrared and Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1398-1410.	2.5	50
31	Fully Solution-Processed $\pi$ -Like Perovskite Solar Cells with Planar Junction: How the Charge Extracting Layer Determines the Open-Circuit Voltage. <i>Advanced Materials</i> , 2017, 29, 1604493.	21.0	50
32	Synthesis of Triply Fused Porphyrin-Nanographene Conjugates. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11233-11237.	13.8	50
33	A relationship between Raman and infrared spectra: the case of push-pull molecules. <i>Chemical Physics Letters</i> , 1998, 287, 100-108.	2.6	48
34	Fingerprints of polycyclic aromatic hydrocarbons (PAHs) in infrared absorption spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 152, 134-148.	3.9	48
35	$\pi$ -Conjugation and End Group Effects in Long Cumulenes: Raman Spectroscopy and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26415-26425.	3.1	46
36	Intramolecular Vibrational Force Fields for Linear Carbon Chains through an Adaptive Linear Scaling Scheme. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11645-11651.	2.5	45

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37	Connection among Raman wavenumbers, bond length alternation and energy gap in polyynes. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1931-1934.	2.5	44
38	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
39	First-principles calculation of the Peierls distortion in an infinite linear carbon chain: the contribution of Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 164-168.	2.5	43
40	Bottom-Up Synthesis of Necklace-Like Graphene Nanoribbons. <i>Chemistry - an Asian Journal</i> , 2015, 10, 2134-2138.	3.3	43
41	Disclosing the Early Stages of Electrochemical Anion Intercalation in Graphite by a Combined Atomic Force Microscopy/Scanning Tunneling Microscopy Approach. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6088-6093.	3.1	43
42	Semiconductor-to-Metal Transition in Carbon-Atom Wires Driven by $sp^{2.2}$ Conjugated End Groups. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10562-10570.	3.1	43
43	Raman and ROA Spectra of (S)- and (+)-2-Br-Hexahelicene: Experimental and DFT Studies of a $\pi$ -Conjugated Chiral System. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2221-2230.	2.6	42
44	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
45	A joint Raman and EPR spectroscopic study on ball-milled nanographites. <i>Chemical Physics Letters</i> , 2011, 516, 220-224.	2.6	41
46	Overtone and combination features of G and D peaks in resonance Raman spectroscopy of the $C_{78}H_{26}$ polycyclic aromatic hydrocarbon. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 757-764.	2.5	41
47	$sp$ Carbon chain interaction with silver nanoparticles probed by Surface Enhanced Raman Scattering. <i>Chemical Physics Letters</i> , 2009, 478, 45-50.	2.6	40
48	TLC surface enhanced Raman scattering of apomorphine in human plasma. <i>Vibrational Spectroscopy</i> , 2012, 62, 286-291.	2.2	40
49	Raman scattering of molecular graphenes. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 10185.	2.8	39
50	Helically Coiled Graphene Nanoribbons. <i>Angewandte Chemie</i> , 2017, 129, 6309-6313.	2.0	39
51	Toward Thiophene-Annulated Graphene Nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3588-3592.	13.8	36
52	Carbynes phonons: A tight binding force field. <i>Journal of Chemical Physics</i> , 2008, 128, 064501.	3.0	35
53	Experimental vibrational contributions to molecular hyperpolarisabilities: methods and measurements. <i>Journal of Molecular Structure</i> , 2000, 521, 137-155.	3.6	34
54	Spectroscopic studies and first-principles modelling of 2,2,4-trifluoro-5-trifluoromethoxy-1,3-dioxole (TTD) and TTD- $\alpha$ -TFE copolymers (Hyflon <sup>®</sup> AD). <i>Polymer</i> , 2008, 49, 1812-1822.	3.8	34

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55	Multi-wavelength Raman response of disordered graphitic materials: models and simulations. <i>Synthetic Metals</i> , 2003, 139, 885-888.	3.9	32
56	Four-Fold Alkyne Benzannulation: Synthesis, Properties, and Structure of Pyreno[ <i>a</i> ]pyrene-Based Helicene Hybrids. <i>Organic Letters</i> , 2019, 21, 8652-8656.	4.6	32
57	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
58	Use of vibrational spectra for the determination of first-order molecular hyperpolarizabilities of push-pull polyenes as function of structural parameters. <i>Journal of Applied Polymer Science</i> , 1998, 70, 1311-1320.	2.6	30
59	Absolute Raman intensity measurements and determination of the vibrational second hyperpolarizability of adamantyl endcapped polyynes. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1293-1298.	2.5	30
60	SERS detection and DFT calculation of 2-naphthalene thiol adsorbed on Ag and Au probes. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 545-555.	7.8	30
61	A Bioorthogonal Probe for Multiscale Imaging by <sup>19</sup> F-MRI and Raman Microscopy: From Whole Body to Single Cells. <i>Journal of the American Chemical Society</i> , 2021, 143, 12253-12260.	13.7	29
62	Nonlinear Optical Properties of Polyynes: An Experimental Prediction for Carbyne. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11131-11139.	3.1	28
63	Precise determination of the orientation of the transition dipole moment in a Bodipy derivative by analysis of the magnetophotoselection effect. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20497-20503.	2.8	28
64	Cove-Edged Graphene Nanoribbons with Incorporation of Periodic Zigzag-Edge Segments. <i>Journal of the American Chemical Society</i> , 2022, 144, 228-235.	13.7	28
65	Bent polyynes: ring geometry studied by Raman and IR spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 95-101.	2.5	27
66	Persistent <i>peri</i> -Heptacene: Synthesis and In Situ Characterization. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13853-13858.	13.8	27
67	Structure modulated charge transfer in carbon atomic wires. <i>Scientific Reports</i> , 2019, 9, 1648.	3.3	26
68	Plasmonic Superchiral Lattice Resonances in the Mid-Infrared. <i>ACS Photonics</i> , 2020, 7, 2676-2681.	6.6	26
69	Pyrrrole-Embedded Linear and Helical Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2021, 143, 11302-11308.	13.7	26
70	Polaron Confinement in n-Doped P(NDI2OD-T2) Unveiled by Vibrational Spectroscopy. <i>Chemistry of Materials</i> , 2019, 31, 6726-6739.	6.7	25
71	Atomic charges from IR intensity parameters: theory, implementation and application. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	1.4	24
72	The connection between robustness angles and dissymmetry factors in vibrational circular dichroism spectra. <i>Chemical Physics Letters</i> , 2015, 639, 320-325.	2.6	24

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73	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
74	Mode Robustness in Raman Optical Activity. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 5520-5527.	5.3	23
75	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
76	Assignment of the $G^+$ and $G^*$ Raman bands of metallic and semiconducting carbon nanotubes based on a common valence force field. <i>Physical Review B</i> , 2006, 74, .	3.2	22
77	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
78	Combining Static and Dynamical Approaches for Infrared Spectra Calculations of Gas Phase Molecules and Clusters. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3802-3813.	5.3	22
79	Simple Synthesis of $\beta$ -Diarylpolyyenes Part 1: Diphenylpolyyenes. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2010, 47, 739-746.	2.2	21
80	Laser-Synthesized SERS Substrates as Sensors toward Therapeutic Drug Monitoring. <i>Nanomaterials</i> , 2019, 9, 677.	4.1	21
81	Modeling phonons of carbon nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2570-2576.	2.7	19
82	SERS activity of silver and gold nanostructured thin films deposited by pulsed laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 347-351.	2.3	19
83	Synthesis of Triply Fused Porphyrin-Nanographene Conjugates. <i>Angewandte Chemie</i> , 2018, 130, 11403-11407.	2.0	18
84	Electric-Field-Induced Effects on the Dipole Moment and Vibrational Modes of the Centrosymmetric Indigo Molecule. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10856-10869.	2.5	18
85	Edge chlorination of hexa-peri-hexabenzocoronene investigated by density functional theory and vibrational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11869-11878.	2.8	17
86	Chemical pathways in the partial oxidation and steam reforming of acetic acid over a Rh-Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Catalysis Today</i> , 2017, 289, 162-172.	4.4	17
87	Infrared and multi-wavelength Raman spectroscopy of regio-regular P3HT and its deuterio derivatives. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 569-580.	2.5	16
88	Laser Controlled Synthesis of Noble Metal Nanoparticle Arrays for Low Concentration Molecule Recognition. <i>Micromachines</i> , 2014, 5, 1296-1309.	2.9	15
89	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
90	Spectroscopic behaviour, bond properties and charge distribution in methoxy groups in hydrofluoroethers: the effect of neighbouring CF <sub>2</sub> group. <i>Computational and Theoretical Chemistry</i> , 2004, 710, 151-162.	1.5	14

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91	Molecular conformations of a partially halogenated ether: A study based on infrared spectroscopy and density functional theory calculations. <i>Journal of Fluorine Chemistry</i> , 2006, 127, 320-329.	1.7	14
92	Toward Thiophene-Annulated Graphene Nanoribbons. <i>Angewandte Chemie</i> , 2018, 130, 3650-3654.	2.0	14
93	Relaxing the graphite lattice along critical directions: The effect of the electron-phonon coupling on the $\pi$ electron band structure. <i>Chemical Physics Letters</i> , 2005, 414, 166-173.	2.6	13
94	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. <i>Faraday Discussions</i> , 2019, 217, 67-97.	3.2	13
95	Experimental Characterization of Polymer Surfaces Subject to Corona Discharges in Controlled Atmospheres. <i>Polymers</i> , 2019, 11, 1646.	4.5	13
96	Size-selected polyynes synthesised by submerged arc discharge in water. <i>Chemical Physics Letters</i> , 2020, 740, 137054.	2.6	13
97	Raman and IR spectra of graphdiyne nanoribbons. <i>Physical Review Materials</i> , 2020, 4, .	2.4	13
98	Annular reactor testing and Raman surface characterization in the CPO of methane and propylene. <i>Applied Catalysis A: General</i> , 2014, 474, 149-158.	4.3	12
99	Au nanoparticle-based sensor for apomorphine detection in plasma. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 2224-2232.	2.8	12
100	Annular reactor testing and Raman surface characterization of the CPO of i-octane and n-octane on Rh based catalyst. <i>Chemical Engineering Journal</i> , 2016, 294, 9-21.	12.7	12
101	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
102	Pulsed laser deposition of gold thin films with long-range spatial uniform SERS activity. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	12
103	Propagation in outdoor environments of aerosol droplets produced by breath and light cough. <i>Aerosol Science and Technology</i> , 2021, 55, 340-351.	3.1	12
104	A density matrix based approach for studying excitons in organic crystals. <i>Chemical Physics Letters</i> , 2010, 496, 284-290.	2.6	11
105	Raman spectroscopy of carbonaceous particles of environmental interest. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 1215-1224.	2.5	11
106	A deep insight into the intrinsic healing mechanism in ureido-pyrimidinone copolymers. <i>Polymers for Advanced Technologies</i> , 2018, 29, 2899-2908.	3.2	11
107	Evidence of graphite blister evolution during the anion de-intercalation process in the cathodic regime. <i>Applied Surface Science</i> , 2020, 504, 144440.	6.1	11
108	Persistent <i>peri</i> -Heptacene: Synthesis and In Situ Characterization. <i>Angewandte Chemie</i> , 2021, 133, 13972-13977.	2.0	11

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109	Topology-dependent conjugation effects in graphdiyne molecular fragments. <i>Carbon</i> , 2021, 180, 265-273.	10.3	11
110	Vibrational and nonlinear optical properties of amine-capped push-pull polyynes by infrared and Raman spectroscopy. <i>Carbon Trends</i> , 2021, 5, 100115.	3.0	11
111	Effective hamiltonian for $\pi$ electrons in linear carbon chains. <i>Chemical Physics Letters</i> , 2007, 450, 86-90.	2.6	10
112	Two dimensional correlation Raman spectroscopy of perfluoropolyethers: Effect of peroxide groups. <i>Journal of Molecular Structure</i> , 2010, 974, 73-79.	3.6	10
113	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. <i>RSC Advances</i> , 2014, 4, 49620-49627.	3.6	10
114	Meeting the Challenging Magnetic and Electronic Structure of Thiophene-Based Heterophenoquinones. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5732-5740.	3.1	10
115	Protein-Metal Interactions Probed by SERS: Lysozyme on Nanostructured Gold Surface. <i>Plasmonics</i> , 2018, 13, 2117-2124.	3.4	10
116	On the performance of laser-synthesized, SERS-based sensors for drug detection. <i>Applied Surface Science</i> , 2020, 507, 145109.	6.1	10
117	Hexa-peri-benzocoronene with two extra K-regions in an ortho-configuration. <i>Chemical Science</i> , 2020, 11, 12816-12821.	7.4	10
118	On the Optical Properties of Ag@Au Colloidal Alloys Pulsed Laser Ablated in Liquid: Experiments and Theory. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24930-24939.	3.1	10
119	Infrared Intensity Studies in Fluorinated Macromolecules. <i>Macromolecular Symposia</i> , 2008, 265, 218-224.	0.7	9
120	Theoretical investigation and computational evaluation of overtone and combination features in resonance Raman spectra of polyenes and carotenoids. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 89-96.	2.5	9
121	Laser tailored nanoparticle arrays to detect molecules at dilute concentration. <i>Applied Surface Science</i> , 2017, 396, 1866-1874.	6.1	9
122	Resonant Raman spectroscopy of nanostructured carbon-based materials: the molecular approach. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	8
123	Perfluoropoly-ether/peroxide compounds: spectroscopic studies and quantum chemical calculations. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 151-164.	1.7	8
124	The Effect of Intermolecular Dipole-Dipole Interaction on Raman Spectra of Polyconjugated Molecules: Density Functional Theory Simulations and Mathematical Models. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1619-1625.	2.6	8
125	Functionalization of nanostructured gold substrates with chiral chromophores for SERS applications: The case of 5-azahelicene. <i>Chirality</i> , 2018, 30, 875-882.	2.6	8
126	Raman spectroscopy of holey nanographene. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 2301-2316.	2.5	8



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127	Low-frequency vibrational modes and static vibrational hyperpolarizabilities of long-chain molecules: polyenes and polyacetylene. <i>Computational and Theoretical Chemistry</i> , 2000, 500, 323-338.	1.5	7
128	Excited-State Molecular Dynamics Simulations of Conjugated Oligomers Using the Electronic Density Matrix. <i>Journal of Physical Chemistry A</i> , 2001, 105, 7057-7071.	2.5	7
129	Retinal in bacteriorhodopsin and related molecular models investigated with Raman spectroscopy and density functional theory calculations. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1207-1214.	2.5	7
130	Light-induced dipole moment modulation in diarylethenes: a fundamental study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31154-31159.	2.8	7
131	The contribution of surfaces to the Raman spectrum of snow. <i>Applied Surface Science</i> , 2020, 515, 146029.	6.1	7
132	Intramolecular charge delocalization and nonlinear optical properties from vibrational spectra. <i>Synthetic Metals</i> , 1999, 102, 1582-1583.	3.9	6
133	A Spectroscopic Approach to Carbon Materials for Energy Storage. , 0, , 23-53.		6
134	Beyond the Continuum Approach. , 0, , 499-605.		6
135	Electronic and vibrational circular dichroism spectra of (R)-( $\hat{\alpha}$ )-apomorphine. <i>Chemical Physics</i> , 2012, 405, 197-205.	1.9	6
136	First-Principles Simulation of Raman Spectra of Adsorbates on Metal Surfaces. <i>ChemPlusChem</i> , 2017, 82, 924-932.	2.8	6
137	High response photochromic films based on $\hat{\alpha}$ diarylethenes and their application in holography. <i>RSC Advances</i> , 2020, 10, 26177-26187.	3.6	6
138	N-Doped Graphene Oxide Nanoparticles Studied by EPR. <i>Applied Magnetic Resonance</i> , 2020, 51, 1481-1495.	1.2	6
139	Vibrational properties of graphdiynes as 2D carbon materials beyond graphene. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10524-10536.	2.8	6
140	Raman Spectra and Structure of sp <sup>2</sup> Carbon-Based Materials: Electron-Phonon Coupling, Vibrational Dynamics and Raman Activity. , 0, , 381-403.		5
141	Experimental and theoretical investigation of the apomorphine Raman spectrum. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 2074-2079.	2.5	5
142	Design and testing of an operando-Raman annular reactor for kinetic studies in heterogeneous catalysis. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 908-918.	3.7	5
143	Effect of Gamma Irradiation on Fully Aliphatic Poly(Propylene/Neopentyl Cyclohexanedicarboxylate) Random Copolymers. <i>Journal of Polymers and the Environment</i> , 2018, 26, 3017-3033.	5.0	5
144	SERS sensing of perampanel with nanostructured arrays of gold particles produced by pulsed laser ablation in water. <i>Medical Devices &amp; Sensors</i> , 2018, 1, e10003.	2.7	5

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145	Evaluation of Molecular Polarizability and of Intensity Carrying Modes Contributions in Circular Dichroism Spectroscopies. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4691.	2.5	5
146	Solvent-mediated engineering of copper-metalated acetylenic polymer scaffolds with enhanced photoelectrochemical performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9729-9734.	10.3	5
147	Structural and Spectroscopic Properties of Benzoylpyridine-Based Hydrazones. <i>ChemPhysChem</i> , 2021, 22, 533-541.	2.1	5
148	2,12-Diaza[6]helicene: An Efficient Non-Conventional Stereogenic Scaffold for Enantioselective Electrochemical Interphases. <i>Chemosensors</i> , 2021, 9, 216.	3.6	5
149	Monitoring flame soot maturity by variable temperature Raman spectroscopy. <i>Fuel</i> , 2022, 321, 124006.	6.4	5
150	Chemical and physical modifications of alternating ethylene-carbon monoxide copolymer by outdoor exposure. <i>Polymer</i> , 2001, 42, 3609-3625.	3.8	4
151	The hydrogen molecule in strong electrostatic fields: A theoretical vibrational spectroscopy study. <i>Chemical Physics Letters</i> , 2005, 405, 108-113.	2.6	4
152	Reactive Dissolution of Organic Nanocrystals at Controlled pH. <i>ChemNanoMat</i> , 2020, 6, 567-575.	2.8	4
153	Raman Spectroscopy-Based Assessment of the Liquid Water Content in Snow. <i>Molecules</i> , 2022, 27, 626.	3.8	4
154	Sensing the Anti-Epileptic Drug Perampanel with Paper-Based Spinning SERS Substrates. <i>Molecules</i> , 2022, 27, 30.	3.8	4
155	Synthesis by pulsed laser ablation of 2D nanostructures for advanced biomedical sensing. <i>Journal of Instrumentation</i> , 2016, 11, C05006-C05006.	1.2	3
156	Synthesis of Natural-Like Snow by Ultrasonic Nebulization of Water: Morphology and Raman Characterization. <i>Molecules</i> , 2020, 25, 4458.	3.8	3
157	Analysis of the Jahn-Teller effect in coronene and corannulene ions and its effect in EPR spectroscopy. <i>Chemical Physics Impact</i> , 2021, 2, 100012.	3.5	3
158	Sliding on snow of Aisi 301 stainless steel surfaces treated with ultra-short laser pulses. <i>Applied Surface Science Advances</i> , 2022, 7, 100194.	6.8	3
159	Understanding the Origin of the VCD Signals on the Basis of a Nonredundant Coordinate Definition. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 2633-2641.	5.3	2
160	Laser Synthesized Nanoparticles for Therapeutic Drug Monitoring. <i>Springer Series in Materials Science</i> , 2018, , 339-360.	0.6	2
161	Synthesis by picosecond laser ablation of ligand-free Ag and Au nanoparticles for SERS applications. <i>EPJ Web of Conferences</i> , 2018, 167, 05002.	0.3	2
162	A topological model for predicting adsorption energies of polycyclic aromatic hydrocarbons on late-transition metal surfaces. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 410-417.	3.7	2

#	ARTICLE	IF	CITATIONS
163	Extended Helical Nanographenes: Synthesis and Photophysical Properties of Naphtho[1,2-a]pyrenes**. European Journal of Organic Chemistry, 0, , .	2.4	2
164	Experimental Symmetry Assignment of the D Band: Evidence from the Raman Spectra of Soluble Molecular Graphite. AIP Conference Proceedings, 2005, , .	0.4	1
165	Galvanic Displaced Nickel-Silicon and Copper-Silicon Interfaces: A DFT Investigation. ECS Transactions, 2017, 75, 7-13.	0.5	1
166	3D Multi-Branched SnO <sub>2</sub> Semiconductor Nanostructures as Optical Waveguides. Materials, 2019, 12, 3148.	2.9	1
167	Non-destructive analysis of concentration profiles in turbid media using microspatially offset Raman spectroscopy: A physical model. Journal of Raman Spectroscopy, 2022, 53, 1592-1603.	2.5	1
168	Raman spectroscopy of molecular models for the detection and the study of carbon nanostructures in graphitic materials. AIP Conference Proceedings, 2001, , .	0.4	0
169	The electronic structure of achiral nanotubes: a symmetry based treatment. AIP Conference Proceedings, 2004, , .	0.4	0
170	Innentitelbild: Helically Coiled Graphene Nanoribbons (Angew. Chem. 22/2017). Angewandte Chemie, 2017, 129, 6040-6040.	2.0	0
171	Slit Arrays for Plasmon-enhanced Vibrational Circular Dichroism: Characterization of the Local Field Enhancement. , 2019, , .		0
172	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
173	Molecular Dynamics Simulations of Collective Electronic and Nuclear Modes in Conjugated Systems. , 2000, , .		0
174	Molecular Dynamics Simulations of Collective Electronic and Nuclear Modes in Conjugated Systems. Springer Series in Chemical Physics, 2001, , 595-597.	0.2	0
175	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
176	The effects of ring strain on cyclic tetraary[5]cumulenes. Chemistry - A European Journal, 2022, , .	3.3	0