RESEARCH & PUBLICATIONS

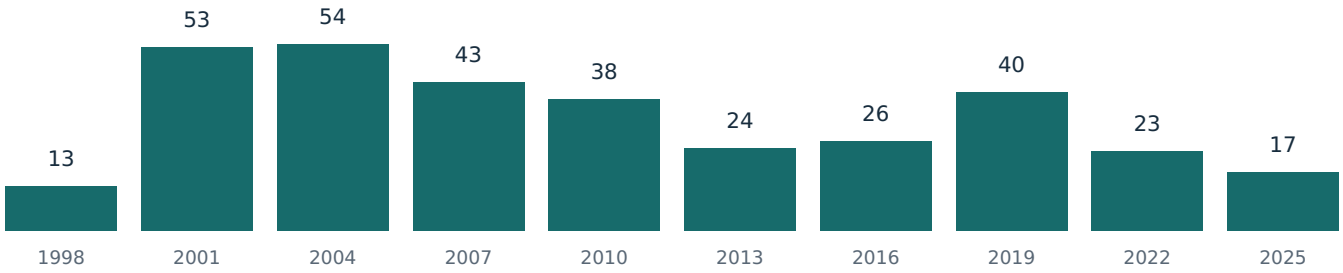
Ado Jorio

A publication record at a glance

331	48,603	87
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 3-year periods



MOST CITED IN THIS LIST

Studying Disorder in Graphite-Based Systems by Raman Spectroscopy — 4,529
2007 Physical Chemistry Chemical Physics

Raman Spectroscopy of Carbon Nanotubes — 4,343
2005 Physics Reports

Quantifying Defects in Graphene via Raman Spectroscopy at Different Excitation Energies — 3,614
2011 Nano Letters

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Ordered by publication year, newest first

2026

01 **Noise Reduction in Nano-Raman Spectroscopy Using Principal Component Analysis** — 4 citations
Physica Status Solidi (B): Basic Research · 263, 2500291
https://exaly.com/article/203362194

02 **Exploring Collagen Fibrillogenesis at the Nanoscale: Tip-Enhanced Raman Imaging of Protofibrils** — 1 citations
Journal of Microscopy · 301, 12-19
https://exaly.com/article/204511057

03 **Substrate-Related Optical Activity in Monolayer WS2 and MoSe2: A Tip-Enhanced Raman Spectroscopy Study** — 1 citations
Journal of Microscopy · 301, 5-11
https://exaly.com/article/205074128

04 **Fully Quantum Perturbative Description of Correlated Stokes–Anti-Stokes Scattering** — 0 citations
Physica Status Solidi (B): Basic Research · 263, e202500268
https://exaly.com/article/205162676

05 **Optical Properties of Cicada Wings Covered by Graphene Studied by Nano-Raman Spectroscopy** — 3 citations
Journal of Microscopy · 301, 30-39
https://exaly.com/article/206984912

06 **Nano-Raman Spectroscopy of Tellurium Nanowires** — 0 citations
Journal of Raman Spectroscopy · 57, 1034-1039
https://exaly.com/article/207399821

07 **Introduction to the Special Issue ‘Tip-Enhanced Raman Spectroscopy (TERS9)’** — 0 citations
Journal of Microscopy · 301, 3-4
https://exaly.com/article/208666656

08 **Anomalous Tip-Sample Distance Behavior on the Tip-Enhanced Raman Spectroscopy of Graphene in Ambient Conditions** — 2 citations
Applied Physics Letters
https://exaly.com/article/211616733

09 **Quantum Confinement Emissions in Strained Monolayer WSe2: A Nanoscale Approach to Single-Photon Emitters via Tip-Enhanced Techniques** — 2 citations
ACS Nano · 20, 10381-10393
https://exaly.com/article/211714288

10 **Plasmonic Bi-Cavity Nanostructure for Efficient Light Collection and Localization** — 0 citations
Analysis & Sensing · 6, e202500216
https://exaly.com/article/211945813

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2026 / continued

11 Defects and Defect-Mediated Engineering of Two-Dimensional Materials: Challenges and Open Questions.
5 citations
Beilstein Journal of Nanotechnology · 17, 454-488
https://exaly.com/article/212089957

12 Theory for Tip-Enhanced Raman Spectroscopy of Two-Dimensional Materials Including Out-of-Plane Raman Response
0 citations
Physical Review B · 114, 175406
https://exaly.com/article/217090445

2025

13 Tip-Enhanced Raman Spectroscopy Coherence Length of 2D Materials: An Application to Graphene
2 citations
Physica Status Solidi (B): Basic Research · 262, 2400287
https://exaly.com/article/192853451

14 Characterization of the Polarization State of Correlated Stokes–Anti-Stokes Raman Scattering in Diamond
1 citations
Physica Status Solidi (B): Basic Research · 262, 2400275
https://exaly.com/article/196481703

15 Mode-Selective Raman Imaging of Metal–Organic Frameworks Reveals Surface Heterogeneities of Single HKUST-1 Crystals
4 citations
ACS Omega · 10, 33393-33400
https://exaly.com/article/203239038

16 Emergent Broadband Polarization Entanglement From Electronic and Phononic Stokes–Anti-Stokes Indistinguishability
1 citations
Physical Review A · 112, 033702
https://exaly.com/article/204636604

17 Nano-Raman Spectroscopy Figure of Merit and Chemical Analysis of Contaminations in Single-Layer MoSe2
8 citations
ACS Nano · 19, 35438-35446
https://exaly.com/article/204795046

2024

18 Detection of Carbon Nanotubes in Bovine Raw Milk Through Fourier Transform Raman Spectroscopy
7 citations
Journal of Dairy Science · 107, 2681-2689
https://exaly.com/article/171304877

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2024 / continued

19 Science and Metrology of Defects in Graphene Using Raman Spectroscopy
120 citations
Carbon · 220, 118801
https://exaly.com/article/174589639

20 Properties of Nonclassical Correlated Stokes–Anti-Stokes Photon Pair in Decane
0 citations
Physical Review B · 109, 024304
https://exaly.com/article/175169573

21 Disentangling Doping and Strain Effects at Defects of Grown MoS2 Monolayers With Nano-Optical Spectroscopy
16 citations
Nanoscale · 16, 12923-12933
https://exaly.com/article/185312242

22 Dielectric Screening Inside Carbon Nanotubes
8 citations
Nano Letters · 24, 8030-8037
https://exaly.com/article/186534902

23 Tip-Enhanced Raman Scattering
76 citations
Nature Reviews Methods Primers · 4, 1-20
https://exaly.com/article/187349919

24 Thickness Dependence of Wavenumbers and Optical-Activity Selection Rule of Zone-Center Phonons in Two-Dimensional Gallium Sulfide Metal Monochalcogenide
3 citations
Physical Chemistry Chemical Physics · 26, 27260-27269
https://exaly.com/article/192941167

25 Polarization State Tomography of Stokes–Anti-Stokes Photon Pairs From Degenerate Four-Wave Mixing in Diamond
2 citations
Physical Review A · 110, 053714
https://exaly.com/article/194976822

2023

26 Micro- and Nano-Raman Spectroscopy Characterization of Exfoliated Graphene With Helium-Ion Microscope Patterned Line Defects
6 citations
Physica Status Solidi (B): Basic Research · 260, 2300204
https://exaly.com/article/164153162

27 Spatially Coherent Tip-Enhanced Raman Spectroscopy Measurements of Electron–Phonon Interaction in a Graphene Device
15 citations
Nano Letters · 23, 8827-8832
https://exaly.com/article/165084364

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2023 / continued

28 **Excitonic Resonances in Coherent Anti-Stokes Raman Scattering From Single-Walled Carbon Nanotubes**
Journal of Physical Chemistry C · 127, 20438-20444
https://exaly.com/article/168551436
2 citations

29 **Instrumentation for Quantum Correlation Analysis of Polarized Stokes-Anti-Stokes Photon Pairs**
Journal unavailable
https://exaly.com/article/170058691
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30 **Microscopic Origin of Polarization-Entangled Stokes–Anti-Stokes Photons in Diamond**
Physical Review A · 108, L051501
https://exaly.com/article/173750065
9 citations

2022

31 **Raman Spectra-Based Structural Classification Analysis of Quinoidal and Derived Molecular Systems**
Physical Chemistry Chemical Physics · 24, 1183-1190
https://exaly.com/article/125128862
6 citations

32 **Raman Spectra of Twisted Bilayer Graphene Close to the Magic Angle**
2D Materials · 9, 025007
https://exaly.com/article/125356638
22 citations

33 **Inclusion of the Sample-Tip Interaction Term in the Theory of Tip-Enhanced Raman Spectroscopy**
Physical Review B
https://exaly.com/article/148380913
9 citations

34 **Twistronics and the Small-Angle Magic**
Nature Materials · 21, 844-845
https://exaly.com/article/150024801
26 citations

35 **Electron–Phonon Coupling in a Magic-Angle Twisted-Bilayer Graphene Device From Gate-Dependent Raman Spectroscopy and Atomistic Modeling**
Nano Letters · 22, 6069-6074
https://exaly.com/article/150050543
13 citations

36 **Observation of Well-Defined Kohn-Anomaly in High-Quality Graphene Devices at Room Temperature**
2D Materials · 9, 045028
https://exaly.com/article/154992856
6 citations

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2022 / continued

37 **Nano-Raman Spectral Imaging of Localized Vibrations in Two-Dimensional Systems**
Journal unavailable · 12203, 1220302
https://exaly.com/article/155134334
1 citations

38 **Properties of Correlated Stokes-Anti-Stokes Raman Scattering From Diamond**
Journal unavailable · 12228, 5-8
https://exaly.com/article/155194406
0 citations

39 **Intraocular Optical Spectroscopy: A Proposal for Alzheimer's Disease Early Diagnosis**
Journal unavailable
https://exaly.com/article/158114018
1 citations

40 **No Title**
Journal unavailable
https://exaly.com/article/160183044
0 citations

2021

41 **Optical Nanoantennas for Tip-Enhanced Raman Spectroscopy**
IEEE Journal of Selected Topics in Quantum Electronics · 27, 1-11
https://exaly.com/article/77785138
30 citations

42 **Event Chronology Analysis of the Historical Development of Tip-Enhanced Raman Spectroscopy**
Journal of Raman Spectroscopy · 52, 587-599
https://exaly.com/article/77892024
7 citations

43 **Structural and Elemental Analysis of Biochars in the Search of a Synthetic Path to Mimetize Anthropic Amazon Soils**
Journal of Environmental Management · 279, 111685
https://exaly.com/article/77914168
12 citations

44 **Nonlinear and Vibrational Microscopy for Label-Free Characterization of Amyloid-β Plaques in Alzheimer's Disease Model**
Analyst, The · 146, 2945-2954
https://exaly.com/article/78486562
23 citations

45 **Micro-Raman Spectroscopy of Lipid Halo and Dense-Core Amyloid Plaques: Aging Process Characterization in the Alzheimer's Disease APPswePS1ΔE9 Mouse Model**
Analyst, The · 146, 6014-6025
https://exaly.com/article/78693283
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Ordered by publication year, newest first

2021 / continued

46 Twisted Bilayer Graphene: A Versatile Fabrication Method and the Detection of Variable Nanometric Strain Caused by Twist-Angle Disorder
43 citations
ACS Applied Nano Materials · 4, 1858-1866
https://exaly.com/article/79131495

47 Localization of Lattice Dynamics in Low-Angle Twisted Bilayer Graphene
236 citations
Nature · 590, 405-409
https://exaly.com/article/79140891

48 The Limits of Near Field Immersion Microwave Microscopy Evaluated by Imaging Bilayer Graphene Moiré Patterns
27 citations
Nature Communications · 12, 1-6
https://exaly.com/article/80593762

49 Nano-Optical Imaging of In-Plane Homojunctions in Graphene and MoS2 Van Der Waals Heterostructures on Talc and SiO2
22 citations
Journal of Physical Chemistry Letters · 12, 7625-7631
https://exaly.com/article/81906088

50 Studying 2D Materials With Advanced Raman Spectroscopy: CARS, SRS and TERS
51 citations
Physical Chemistry Chemical Physics · 23, 23428-23444
https://exaly.com/article/82884245

51 Raman Spectroscopy for Carbon Nanotube Applications
491 citations
Journal of Applied Physics
https://exaly.com/article/82934118

2020

52 Few-Wall Carbon Nanotube Coils
16 citations
Nano Letters · 20, 953-962
https://exaly.com/article/75224728

53 Raman Spectroscopy Polarization Dependence Analysis in Two-Dimensional Gallium Sulfide
31 citations
Physical Review B · 102, 165307
https://exaly.com/article/75435337

54 Nanofabrication of Plasmon-Tunable Nanoantennas for Tip-Enhanced Raman Spectroscopy
15 citations
Journal of Chemical Physics · 153, 114201
https://exaly.com/article/75486657

Ordered by publication year, newest first

2020 / continued

55 Effective Hamiltonian for Stokes–Anti-Stokes Pair Generation With Pump and Probe Polarized Modes
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Physical Review B
https://exaly.com/article/75535181

56 Nanomechanics of Few-Layer Materials: Do Individual Layers Slide Upon Folding?
9 citations
Beilstein Journal of Nanotechnology · 11, 1801-1808
https://exaly.com/article/75776097

57 Stokes–Anti-Stokes Light-Scattering Process: A Photon-Wave-Function Approach
8 citations
Physical Review A
https://exaly.com/article/76257613

58 Linkage Between Micro- and Nano-Raman Spectroscopy of Defects in Graphene
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Physical Review Applied · 14, 024056
https://exaly.com/article/76318087

59 Properties of Carbon Particles in Archeological and Natural Amazon Rainforest Soils
4 citations
Catena · 194, 104687
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60 Optical Properties of Plasmon-Tunable Tip Pyramids for Tip-Enhanced Raman Spectroscopy
25 citations
Physica Status Solidi - Rapid Research Letters · 14, 2000212
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61 Raman Spectroscopy Analysis of Number of Layers in Mass-Produced Graphene Flakes
149 citations
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https://exaly.com/article/77394005

62 Temperature-Dependent Phonon Dynamics and Anharmonicity of Suspended and Supported Few-Layer Gallium Sulfide
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Nanotechnology · 31, 495702
https://exaly.com/article/85297884

63 Lifetime and Polarization for Real and Virtual Correlated Stokes-Anti-Stokes Raman Scattering in Diamond
17 citations
Physical Review Research · 2, 013084
https://exaly.com/article/85655113

64 Impact of Substrate on Tip-Enhanced Raman Spectroscopy: A Comparison Between Field-Distribution Simulations and Graphene Measurements
30 citations
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Ordered by publication year, newest first

2020 / continued

65 **Observation of Moiré Superlattices on Twisted Bilayer Graphene by Scanning Microwave Impedance Microscopy**
Journal unavailable · 11465, 31-37
https://exaly.com/article/85852343
4 citations

66 **Spacial Coherence in Micro- and Nano-Raman Spectroscopy in Graphene**
Journal unavailable · 11468, 114680O
https://exaly.com/article/118263569
0 citations

67 **Graphene**
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https://exaly.com/article/119642142
2 citations

68 **O Impacto Econômico do Financiamento da Ciência: Estudo de Caso um Bem de Capital em Nanotecnologia**
Revista Economia Ensaios
https://exaly.com/article/120931996
1 citations

69 **No Title**
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https://exaly.com/article/137355065
0 citations

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70 **Tip-Enhanced Raman Spectroscopy of Graphene**
Journal unavailable
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14 citations

71 **Probing Spatial Phonon Correlation Length in Post-Transition Metal Monochalcogenide GaS Using Tip-Enhanced Raman Spectroscopy**
Nano Letters · 19, 7357-7364
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39 citations

72 **Physical Properties of Photonic Cooper Pairs Generated via Correlated Stokes–Anti-Stokes Raman Scattering**
Physica Status Solidi (B): Basic Research · 256, 1900218
https://exaly.com/article/72943278
6 citations

73 **Stokes–Anti-Stokes Correlated Photon Properties Akin to Photonic Cooper Pairs**
Physical Review B · 99, 100503
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Ordered by publication year, newest first

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74 Normalized Spectral Responsivity Measurement of Photodiode by Direct Method Using a Supercontinuum Laser Source
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0 citations

75 Study of the Interaction Between Light and Nanoantennas in Tip-Enhanced Raman Spectroscopy
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76 A Fingerprint of Amyloid Plaques in a Bitransgenic Animal Model of Alzheimer's Disease Obtained by Statistical Unmixing Analysis of Hyperspectral Raman Data
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23 citations

77 Protocol and Reference Material for Measuring the Nanoantenna Enhancement Factor in Tip-Enhanced Raman Spectroscopy
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5 citations

78 Disorder and Defects in Two-Dimensional Materials Probed by Raman Spectroscopy
Springer Series in Materials Science
https://exaly.com/article/74642603
6 citations

79 Tip-Enhanced Spectroscopy and Imaging of Carbon Nanomaterials
World Scientific Series on Carbon Nanoscience
https://exaly.com/article/86105034
6 citations

80 Quantum Correlations in the Stokes-Anti-Stokes Raman Scattering: Photonic Cooper Pairs
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https://exaly.com/article/114720023
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2018

81 Mildred S. Dresselhaus (1930–2017)
Journal of Raman Spectroscopy · 49, 13-18
https://exaly.com/article/69534990
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82 Applications of Raman Spectroscopy in Graphene-Related Materials and the Development of Parameterized PCA for Large-Scale Data Analysis
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https://exaly.com/article/69632309
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Ordered by publication year, newest first

2018 / continued

83 **Instrumentation and Algorithms for the Sonification of Scanning Probe Microscopy Output**
Journal unavailable
https://exaly.com/article/70279163
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84 **Plasmon-Tunable Tip Pyramids: Monopole Nanoantennas for Near-Field Scanning Optical Microscopy**
Advanced Optical Materials · 6, 1800528
https://exaly.com/article/71676979
67 citations

85 **Implementação de sistema para sonificação de microscopia de varredura por sonda**
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https://exaly.com/article/112618714
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2017

86 **Anomalous Nonlinear Optical Response of Graphene Near Phonon Resonances**
Nano Letters · 17, 3447-3451
https://exaly.com/article/66491276
32 citations

87 **Disentangling Contributions of Point and Line Defects in the Raman Spectra of Graphene-Related Materials**
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https://exaly.com/article/66699492
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88 **Inner- and Outer-Wall Sorting of Double-Walled Carbon Nanotubes**
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89 **Vibrations in Graphene**
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90 **Photonic Counterparts of Cooper Pairs**
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36 citations

91 **Multi-Walled Carbon Nanotubes Functionalized With Recombinant Dengue Virus 3 Envelope Proteins Induce Significant and Specific Immune Responses in Mice**
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92 **Symmetry-Derived Selection Rules for Plasmon-Enhanced Raman Scattering**
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2017 / continued

93 **Resonant Anti-Stokes Raman Scattering in Single-Walled Carbon Nanotubes**
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94 **Optical Properties of Carbon Nanotubes and Nanographene**
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95 **Relação de dispersão para os plásmon-poláritons de superfície em uma interface plana metal/dielétrico**
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2016

96 **Raman Studies of Carbon Nanostructures**
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97 **Temporal Quantum Correlations in Inelastic Light Scattering From Water**
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98 **Efficient Delivery of DNA Into Bovine Preimplantation Embryos by Multiwall Carbon Nanotubes**
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99 **Biocompatibility Assessment of Fibrous Nanomaterials in Mammalian Embryos**
Nanomedicine: Nanotechnology, Biology, and Medicine · 12, 1151-1159
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11 citations

100 **Stokes–Anti-Stokes Correlation in the Inelastic Scattering of Light by Matter and Generalization of the Bose-Einstein Population Function**
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101 **Vision-Based Position Control Applied to Probe Positioning for Tip Enhanced Raman Spectroscopy**
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102 **Defect-Free Carbon Nanotube Coils**
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Ordered by publication year, newest first

2016 / continued

103 **Depth Dependence of Black Carbon Structure, Elemental and Microbiological Composition in Anthropic Amazonian Dark Soil**
22 citations
Soil and Tillage Research · 155, 298-307
https://exaly.com/article/65722388

104 **Study of Carbon Nanostructures for Soil Fertility Improvement**
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105 **Nanostructured Materials: Metrology**
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106 **The Contributions of Mycorrhizal Fungi.**
2 citations
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107 **Stokes and Anti-Stokes Raman Spectra of the High-Energy C–C Stretching Modes in Graphene and Diamond**
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108 **Tip-Enhanced Raman Mapping of Local Strain in Graphene**
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109 **Group Theory for Structural Analysis and Lattice Vibrations in Phosphorene Systems**
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110 **Second Harmonic Generation in WSe2**
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2D Materials · 2, 045015
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111 **Nanoscale Mapping of Carbon Oxidation in Pyrogenic Black Carbon From Ancient Amazonian Anthrosols**
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112 **Strain Discontinuity, Avalanche, and Memory in Carbon Nanotube Serpentine Systems** — 4 citations
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113 **Enhanced Mechanical Stability of Gold Nanotips Through Carbon Nanocone Encapsulation** — 28 citations
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https://exaly.com/article/61954473

114 **Tuning Localized Surface Plasmon Resonance in Scanning Near-Field Optical Microscopy Probes** — 77 citations
ACS Nano · 9, 6297-304
https://exaly.com/article/62013490

115 **Stokes–Anti-Stokes Correlations in Diamond** — 46 citations
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116 **Structural Analysis of Polycrystalline Graphene Systems by Raman Spectroscopy** — 226 citations
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117 **Dopamine Signaling Regulates Fat Content Through β-Oxidation in Caenorhabditis elegans** — 21 citations
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https://exaly.com/article/57398265

118 **Spatial Coherence in Near-Field Raman Scattering** — 75 citations
Physical Review Letters · 113, 186101
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119 **Quantifying Defects in N-Layer Graphene via a Phenomenological Model of Raman Spectroscopy** — 16 citations
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120 **Optical-Phonon Resonances With Saddle-Point Excitons in Twisted-Bilayer Graphene** — 46 citations
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Ordered by publication year, newest first

2014 / continued

121 **Chemical Analysis and Molecular Models for Calcium–Oxygen–Carbon Interactions in Black Carbon Found in Fertile Amazonian Anthrosoils** — 69 citations

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122 **Group Theory Analysis of Phonons in Two-Dimensional Transition Metal Dichalcogenides** — 224 citations

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123 **Theory of Spatial Coherence in Near-Field Raman Scattering** — 57 citations

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124 **Line Shape Analysis of the Raman Spectra From Pure and Mixed Biofuels Esters Compounds** — 84 citations

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125 **Resonance Effects on the Raman Spectra of Graphene Superlattices** — 155 citations

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126 **Raman Spectroscopy of Twisted Bilayer Graphene** — 106 citations

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127 **The Use of Raman Spectroscopy to Characterize the Carbon Materials Found in Amazonian Anthrosoils** — 75 citations

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128 **Dynamics of the Formation of Carbon Nanotube Serpentines** — 10 citations

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129 **Raman Scattering Study of the Phonon Dispersion in Twisted Bilayer Graphene** — 102 citations

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130 **Nanometrology Satellite Workshop Reveals Significant Progress** — 0 citations

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Ordered by publication year, newest first

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133 Perspectives on Raman Spectroscopy of Graphene-Based Systems: From the Perfect Two-Dimensional Surface to Charcoal
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