Alberto Zobelli

List of Publications by Year in descending order

50 papers	2,932 citations	236925 25 h-index	243625 44 g-index
52 all docs	52 docs citations	52 times ranked	5381 citing authors

#	Article	IF	Citations
1	Mapping Modified Electronic Levels in the MoirÃ© Patterns in MoS₂/WSe₂ Using Low-Loss EELS. Nano Letters, 2021, 21, 4071-4077.	9.1	16
2	Band gap measurements of monolayer h-BN and insights into carbon-related point defects. 2D Materials, 2021, 8, 044001.	4.4	34
3	Tailored nanoscale plasmon-enhanced vibrational electron spectroscopy. Microscopy and Microanalysis, 2021, 27, 320-321.	0.4	0
4	Unveiling nanoscale optical and structural properties of TMD monolayers using combined electron spectroscopies. Microscopy and Microanalysis, 2021, 27, 124-127.	0.4	0
5	MoirÃ© Angle Dependent Excitonic Absorption in Twisted Bilayer WSe2 by EELS. Microscopy and Microanalysis, 2021, 27, 122-123.	0.4	0
6	Nanoscale Modification of WS₂ Trion Emission by Its Local Electromagnetic Environment. Nano Letters, 2021, 21, 10178-10185.	9.1	23
7	Spatial and spectral dynamics in STEM hyperspectral imaging using random scan patterns. Ultramicroscopy, 2020, 212, 112912.	1.9	17
8	Extrinsic Doping in Group IV Hexagonal-Diamond-Type Crystals. Journal of Physical Chemistry C, 2020, 124, 17290-17298.	3.1	5
9	Deep ultraviolet hyperspectral cryomicroscopy in boron nitride: Photoluminescence in crystals with an ultra-low defect density. AIP Advances, 2020, 10, 075025.	1.3	16
10	Combining Highly Monochromatized EELS with CL for Probing Elementary Excitations and Their Interaction. Microscopy and Microanalysis, 2020, 26, 1502-1504.	0.4	0
11	Tailored Nanoscale Plasmon-Enhanced Vibrational Electron Spectroscopy. Nano Letters, 2020, 20, 2973-2979.	9.1	36
12	Dynamic Random Scan Approach of Spectrum Imaging for Temporal Evolution of Spectroscopic Signals. Microscopy and Microanalysis, 2019, 25, 162-163.	0.4	1
13	Low Loss EELS of Lateral MoS₂/WS₂ Heterostructures. Microscopy and Microanalysis, 2019, 25, 640-641.	0.4	1
14	Luminescence from Isolated Tb-based Metallacrown Molecular Complexes on h-BN. Microscopy and Microanalysis, 2019, 25, 604-605.	0.4	3
15	Optical gap and optically active intragap defects in cubic BN. Physical Review B, 2018, 98, .	3.2	22
16	New Directions Toward Nanophysics Experiments in STEM. Microscopy and Microanalysis, 2018, 24, 434-435.	0.4	3
17	Band Gap Opening Induced by the Structural Periodicity in Epitaxial Graphene Buffer Layer. Nano Letters, 2017, 17, 2681-2689.	9.1	36
18	Interplay Between Cr Dopants and Vacancy Clustering in the Structural and Optical Properties of WSe₂. ACS Nano, 2017, 11, 11162-11168.	14.6	33

#	Article	IF	Citations
19	Optical Spectroscopy at High Spatial Resolution with Fast Electrons. Microscopy and Microanalysis, 2017, 23, 1528-1529.	0.4	0
20	Atomically resolved mapping of EELS fine structures. Materials Science in Semiconductor Processing, 2017, 65, 2-17.	4.0	30
21	Revisiting Graphene Oxide Chemistry via Spatially-Resolved Electron Energy Loss Spectroscopy. Chemistry of Materials, 2016, 28, 3741-3748.	6.7	67
22	Crystal Phase Effects in Si Nanowire Polytypes and Their Homojunctions. Nano Letters, 2016, 16, 5694-5700.	9.1	38
23	Bright UV Single Photon Emission at Point Defects in h-BN. Nano Letters, 2016, 16, 4317-4321.	9.1	321
24	Quantum and Time-Resolved Nano-Optics using Auto-Correlated Cathodoluminescence in a STEM. Microscopy and Microanalysis, 2015, 21, 1253-1254.	0.4	0
25	Atomic Structure of Epitaxial Graphene Sidewall Nanoribbons: Flat Graphene, Miniribbons, and the Confinement Gap. Nano Letters, 2015, 15, 182-189.	9.1	67
26	Local electrical control of magnetic order and orientation by ferroelastic domain arrangements just above room temperature. Scientific Reports, 2015, 5, 10026.	3.3	44
27	Evidence for anisotropic dielectric properties of monoclinic hafnia using valence electron energy-loss spectroscopy in high-resolution transmission electron microscopy and ab initio time-dependent density-functional theory. Applied Physics Letters, 2014, 105, .	3.3	13
28	A New Structural Model for Graphene Oxide and Reduced Graphene Oxide as Revealed by Core EELS and DFT. Microscopy and Microanalysis, 2014, 20, 1774-1775.	0.4	2
29	Electric-field control of magnetic order above room temperature. Nature Materials, 2014, 13, 345-351.	27.5	451
30	Direct evidence of tungsten clustering in W0.02V0.98O2 thin films and its effect on the metal-to-insulator transition. Acta Materialia, 2014, 80, 16-24.	7.9	12
31	Nanometric Resolved Luminescence in h-BN Flakes: Excitons and Stacking Order. ACS Photonics, 2014, 1, 857-862.	6.6	80
32	Inclusion of radiation damage dynamics in high-resolution transmission electron microscopy image simulations: The example of graphene. Physical Review B, 2013, 87, .	3.2	31
33	Atomic and Electronic Structure of the BaTiO₃/Fe Interface in Multiferroic Tunnel Junctions. Nano Letters, 2012, 12, 376-382.	9.1	95
34	A comparative study of density functional and density functional tight binding calculations of defects in graphene. Physica Status Solidi (B): Basic Research, 2012, 249, 276-282.	1.5	55
35	Graphene Edge Structures: Folding, Scrolling, Tubing, Rippling and Twisting. Carbon Nanostructures, 2012, , 75-85.	0.1	9
36	Interface-induced room-temperature multiferroicity in BaTiO3. Nature Materials, 2011, 10, 753-758.	27.5	341

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37	Low-Energy Termination of Graphene Edges via the Formation of Narrow Nanotubes. Physical Review Letters, 2011, 107, 065502.	7.8	48
38	Hydrogen adsorption on graphene: a first principles study. European Physical Journal B, 2010, 76, 481-486.	1.5	114
39	Enhanced<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:ma formation on specific topological defects in interstellar graphenic dust grain models. Physical Review B, 2010, 82, .	3.2	10
40	BN Domains Included into Carbon Nanotubes: Role of Interface. Journal of Physical Chemistry C, 2009, 113, 16603-16609.	3.1	38
41	Electron energy loss spectroscopy andab initioinvestigation of iron oxide nanomaterials grown by a hydrothermal process. Physical Review B, 2009, 79, .	3.2	56
42	Ab initiostudy of bilateral doping within the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>MoS</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms Physical Review B, 2008, 78, .	3.2	101
43	Shaping single walled nanotubes with an electron beam. Physical Review B, 2008, 77, .	3.2	72
44	Dislocations in Carbon Nanotube Walls. Journal of Nanoscience and Nanotechnology, 2007, 7, 3417-3420.	0.9	10
45	Electron knock-on cross section of carbon and boron nitride nanotubes. Physical Review B, 2007, 75, .	3.2	256
46	Vacancy migration in hexagonal boron nitride. Physical Review B, 2007, 75, .	3.2	143
47	Defective Structure of BN Nanotubes:â€‰ From Single Vacancies to Dislocation Lines. Nano Letters, 2006, 6, 1955-1960.	9.1	153
48	Probing the Chemical and Electronic Properties of Individual Nanoparticles by Spatially-Resolved EELS. Microscopy and Microanalysis, 2004, 10, 450-451.	0.4	1
49	â€œMagicâ€•Heteroepitaxial Growth on Vicinal Surfaces. Physical Review Letters, 2003, 91, 116101.	7.8	23
50	Microscopic Observations and Ion Beam Analyses of Pigment Distribution in Painting Glazes. Instrumentation Science and Technology, 2003, 21, 35-48.	0.8	5