

Alberto Zobelli

List of Publications by Year in descending order

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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	Electric-field control of magnetic order above room temperature. Nature Materials, 2014, 13, 345-351.	27.5	451
2	Interface-induced room-temperature multiferroicity in BaTiO ₃ . Nature Materials, 2011, 10, 753-758.	27.5	341
3	Bright UV Single Photon Emission at Point Defects in <i>h</i> -BN. Nano Letters, 2016, 16, 4317-4321.	9.1	321
4	Electron knock-on cross section of carbon and boron nitride nanotubes. Physical Review B, 2007, 75, .	3.2	256
5	Defective Structure of BN Nanotubes: From Single Vacancies to Dislocation Lines. Nano Letters, 2006, 6, 1955-1960.	9.1	153
6	Vacancy migration in hexagonal boron nitride. Physical Review B, 2007, 75, .	3.2	143
7	Hydrogen adsorption on graphene: a first principles study. European Physical Journal B, 2010, 76, 481-486.	1.5	114
8	<i>Ab initio</i> study of bilateral doping within the MoS_2 . Physical Review B, 2008, 78, .	3.2	101
9	Atomic and Electronic Structure of the BaTiO ₃ /Fe Interface in Multiferroic Tunnel Junctions. Nano Letters, 2012, 12, 376-382.	9.1	95
10	Nanometric Resolved Luminescence in <i>h</i> -BN Flakes: Excitons and Stacking Order. ACS Photonics, 2014, 1, 857-862.	6.6	80
11	Shaping single walled nanotubes with an electron beam. Physical Review B, 2008, 77, .	3.2	72
12	Atomic Structure of Epitaxial Graphene Sidewall Nanoribbons: Flat Graphene, Miniribbons, and the Confinement Gap. Nano Letters, 2015, 15, 182-189.	9.1	67
13	Revisiting Graphene Oxide Chemistry via Spatially-Resolved Electron Energy Loss Spectroscopy. Chemistry of Materials, 2016, 28, 3741-3748.	6.7	67
14	Electron energy loss spectroscopy and <i>ab initio</i> investigation of iron oxide nanomaterials grown by a hydrothermal process. Physical Review B, 2009, 79, .	3.2	56
15	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
16	Low-Energy Termination of Graphene Edges via the Formation of Narrow Nanotubes. Physical Review Letters, 2011, 107, 065502.	7.8	48
17	Local electrical control of magnetic order and orientation by ferroelastic domain arrangements just above room temperature. Scientific Reports, 2015, 5, 10026.	3.3	44
18	BN Domains Included into Carbon Nanotubes: Role of Interface. Journal of Physical Chemistry C, 2009, 113, 16603-16609.	3.1	38

#	ARTICLE	IF	CITATIONS
19	Crystal Phase Effects in Si Nanowire Polytypes and Their Homojunctions. Nano Letters, 2016, 16, 5694-5700.	9.1	38
20	Band Gap Opening Induced by the Structural Periodicity in Epitaxial Graphene Buffer Layer. Nano Letters, 2017, 17, 2681-2689.	9.1	36
21	Tailored Nanoscale Plasmon-Enhanced Vibrational Electron Spectroscopy. Nano Letters, 2020, 20, 2973-2979.	9.1	36
22	Band gap measurements of monolayer h-BN and insights into carbon-related point defects. 2D Materials, 2021, 8, 044001.	4.4	34
23	Interplay Between Cr Dopants and Vacancy Clustering in the Structural and Optical Properties of WSe ₂ . ACS Nano, 2017, 11, 11162-11168.	14.6	33
24	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
25	Atomically resolved mapping of EELS fine structures. Materials Science in Semiconductor Processing, 2017, 65, 2-17.	4.0	30
26	“Magic” Heteroepitaxial Growth on Vicinal Surfaces. Physical Review Letters, 2003, 91, 116101.	7.8	23
27	Nanoscale Modification of WS ₂ Trion Emission by Its Local Electromagnetic Environment. Nano Letters, 2021, 21, 10178-10185.	9.1	23
28	Optical gap and optically active intragap defects in cubic BN. Physical Review B, 2018, 98, .	3.2	22
29	Spatial and spectral dynamics in STEM hyperspectral imaging using random scan patterns. Ultramicroscopy, 2020, 212, 112912.	1.9	17
30	Deep ultraviolet hyperspectral cryomicroscopy in boron nitride: Photoluminescence in crystals with an ultra-low defect density. AIP Advances, 2020, 10, 075025.	1.3	16
31	Mapping Modified Electronic Levels in the Moiré Patterns in MoS ₂ /WSe ₂ Using Low-Loss EELS. Nano Letters, 2021, 21, 4071-4077.	9.1	16
32	Evidence for anisotropic dielectric properties of monoclinic hafnia using valence electron energy-loss spectroscopy in high-resolution transmission electron microscopy and <i>ab initio</i> time-dependent density-functional theory. Applied Physics Letters, 2014, 105, .	3.3	13
33	Direct evidence of tungsten clustering in WO ₂ /O ₂ thin films and its effect on the metal-to-insulator transition. Acta Materialia, 2014, 80, 16-24.	7.9	12
34	Dislocations in Carbon Nanotube Walls. Journal of Nanoscience and Nanotechnology, 2007, 7, 3417-3420.	0.9	10
35	Enhanced formation on specific topological defects in interstellar graphenic dust grain models. Physical Review B, 2010, 82, .	3.2	10
36	Graphene Edge Structures: Folding, Scrolling, Tubing, Rippling and Twisting. Carbon Nanostructures, 2012, , 75-85.	0.1	9

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37	Microscopic Observations and Ion Beam Analyses of Pigment Distribution in Painting Glazes. Instrumentation Science and Technology, 2003, 21, 35-48.	0.8	5
38	Extrinsic Doping in Group IV Hexagonal-Diamond-Type Crystals. Journal of Physical Chemistry C, 2020, 124, 17290-17298.	3.1	5
39	New Directions Toward Nanophysics Experiments in STEM. Microscopy and Microanalysis, 2018, 24, 434-435.	0.4	3
40	Luminescence from Isolated Tb-based Metallacrown Molecular Complexes on h-BN. Microscopy and Microanalysis, 2019, 25, 604-605.	0.4	3
41	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
42	Probing the Chemical and Electronic Properties of Individual Nanoparticles by Spatially-Resolved EELS. Microscopy and Microanalysis, 2004, 10, 450-451.	0.4	1
43	Dynamic Random Scan Approach of Spectrum Imaging for Temporal Evolution of Spectroscopic Signals. Microscopy and Microanalysis, 2019, 25, 162-163.	0.4	1
44	Low Loss EELS of Lateral MoS ₂ /WS ₂ Heterostructures. Microscopy and Microanalysis, 2019, 25, 640-641.	0.4	1
45	Quantum and Time-Resolved Nano-Optics using Auto-Correlated Cathodoluminescence in a STEM. Microscopy and Microanalysis, 2015, 21, 1253-1254.	0.4	0
46	Optical Spectroscopy at High Spatial Resolution with Fast Electrons. Microscopy and Microanalysis, 2017, 23, 1528-1529.	0.4	0
47	Combining Highly Monochromatized EELS with CL for Probing Elementary Excitations and Their Interaction. Microscopy and Microanalysis, 2020, 26, 1502-1504.	0.4	0
48	Tailored nanoscale plasmon-enhanced vibrational electron spectroscopy. Microscopy and Microanalysis, 2021, 27, 320-321.	0.4	0
49	Unveiling nanoscale optical and structural properties of TMD monolayers using combined electron spectroscopies. Microscopy and Microanalysis, 2021, 27, 124-127.	0.4	0
50	Moiré Angle Dependent Excitonic Absorption in Twisted Bilayer WSe ₂ by EELS. Microscopy and Microanalysis, 2021, 27, 122-123.	0.4	0