

Daniel Wolf

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

1,399
citations

236925

25
h-index

361022

35
g-index

82
all docs

82
docs citations

82
times ranked

2070
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Nanorattles with tailored electric field enhancement. <i>Nanoscale</i> , 2017, 9, 9376-9385. | 5.6 | 76 |
| 2 | 3D Magnetic Induction Maps of Nanoscale Materials Revealed by Electron Holographic Tomography. <i>Chemistry of Materials</i> , 2015, 27, 6771-6778. | 6.7 | 64 |
| 3 | Weighted simultaneous iterative reconstruction technique for single-axis tomography. <i>Ultramicroscopy</i> , 2014, 136, 15-25. | 1.9 | 61 |
| 4 | Towards automated electron holographic tomography for 3D mapping of electrostatic potentials. <i>Ultramicroscopy</i> , 2010, 110, 390-399. | 1.9 | 57 |
| 5 | Helical Packing of Nanoparticles Confined in Cylindrical Domains of a Self-Assembled Block Copolymer Structure. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9090-9093. | 13.8 | 55 |
| 6 | Electron holographic tomography. <i>Current Opinion in Solid State and Materials Science</i> , 2013, 17, 126-134. | 11.5 | 50 |
| 7 | Holographic vector field electron tomography of three-dimensional nanomagnets. <i>Communications Physics</i> , 2019, 2, . | 5.3 | 45 |
| 8 | Unveiling the three-dimensional magnetic texture of skyrmion tubes. <i>Nature Nanotechnology</i> , 2022, 17, 250-255. | 31.5 | 45 |
| 9 | Electron holographic tomography for mapping the three-dimensional distribution of electrostatic potential in III-V semiconductor nanowires. <i>Applied Physics Letters</i> , 2011, 98, . | 3.3 | 40 |
| 10 | Interpreting drivers of change in fluvial archives of the Western Mediterranean - A critical view. <i>Earth-Science Reviews</i> , 2017, 174, 53-83. | 9.1 | 40 |
| 11 | Synthesis and Three-Dimensional Magnetic Field Mapping of Co_2FeGa Heusler Nanowires at 5 nm Resolution. <i>Nano Letters</i> , 2016, 16, 114-120. | 9.1 | 39 |
| 12 | The effect of dynamical scattering in off-axis holographic mean inner potential and inelastic mean free path measurements. <i>Ultramicroscopy</i> , 2010, 110, 438-446. | 1.9 | 38 |
| 13 | Chromium Trihalides CrX_3 ($X = \text{Cl, Br, I}$): Direct Deposition of Micro- and Nanosheets on Substrates by Chemical Vapor Transport. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901410. | 3.7 | 37 |
| 14 | Electron holography for fields in solids: Problems and progress. <i>Ultramicroscopy</i> , 2013, 134, 126-134. | 1.9 | 36 |
| 15 | Chemical vapor growth and delamination of RuCl_3 nanosheets down to the monolayer limit. <i>Nanoscale</i> , 2018, 10, 19014-19022. | 5.6 | 36 |
| 16 | A rheological and microscopical characterization of biocompatible ferrofluids. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 354, 98-104. | 2.3 | 35 |
| 17 | Lattice Expansion in Seamless Bilayer Graphene Constrictions at High Bias. <i>Nano Letters</i> , 2012, 12, 4455-4459. | 9.1 | 32 |
| 18 | Holocene sediment fluxes in a fragile loess landscape (Saxony, Germany). <i>Catena</i> , 2013, 103, 87-102. | 5.0 | 31 |

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|----|--|------|-----------|
| 19 | Noise estimation for off-axis electron holography. Ultramicroscopy, 2014, 144, 32-42. | 1.9 | 31 |
| 20 | Nanometer-scale tomographic reconstruction of three-dimensional electrostatic potentials in GaAs/AlGaAs core-shell nanowires. Physical Review B, 2014, 90, . | 3.2 | 28 |
| 21 | Late Quaternary fluvial dynamics of the Jarama River in central Spain. Quaternary International, 2013, 302, 20-41. | 1.5 | 27 |
| 22 | Fluvial system response to external forcing and human impact " Late Pleistocene and Holocene fluvial dynamics of the lower Guadalquivir in western Andalusia (Spain). Boreas, 2014, 43, 422-449. | 2.4 | 27 |
| 23 | Western Mediterranean environmental changes: Evidences from fluvial archives. Quaternary Science Reviews, 2015, 122, 30-50. | 3.0 | 27 |
| 24 | Three-Dimensional Composition and Electric Potential Mapping of III-V Core-Multishell Nanowires by Correlative STEM and Holographic Tomography. Nano Letters, 2018, 18, 4777-4784. | 9.1 | 27 |
| 25 | Loess in Armenia " stratigraphic findings and palaeoenvironmental indications. Proceedings of the Geologists Association, 2016, 127, 29-39. | 1.1 | 26 |
| 26 | Induction Mapping of the 3D-Modulated Spin Texture of Skyrmions in Thin Helimagnets. Physical Review Letters, 2018, 120, 217201. | 7.8 | 26 |
| 27 | CuTe: Remarkable Bonding Features as a Consequence of a Charge Density Wave. Angewandte Chemie - International Edition, 2013, 52, 862-865. | 13.8 | 23 |
| 28 | Tomographic investigation of fermi level pinning at focused ion beam milled semiconductor surfaces. Applied Physics Letters, 2013, 103, . | 3.3 | 23 |
| 29 | Magnetic Nanoparticle Chains in Gelatin Ferrogels: Bioinspiration from Magnetotactic Bacteria. Advanced Functional Materials, 2019, 29, 1905996. | 14.9 | 23 |
| 30 | Nanoscale three-dimensional reconstruction of electric and magnetic stray fields around nanowires. Applied Physics Letters, 2014, 105, . | 3.3 | 20 |
| 31 | Retrofitting an older (S)TEM with two Cs aberration correctors for 80 kV and 60 kV operation. Journal of Microscopy, 2013, 249, 87-92. | 1.8 | 18 |
| 32 | Multi-walled carbon nanotube dispersion methodologies in alkaline media and their influence on mechanical reinforcement of alkali-activated nanocomposites. Composites Part B: Engineering, 2021, 209, 108559. | 12.0 | 18 |
| 33 | Polymorphic $PtBi_2$: Growth, structure, and superconducting properties. Physical Review Materials, 2020, 4, . | | |
| 34 | Granulometrical, mineralogical and geochemical characterization of loess deposits in the Tajo Basin. Quaternary International, 2016, 407, 14-28. | 1.5 | 15 |
| 35 | Evidence for humid conditions during the last glacial from leaf wax patterns in the loess "paleosol sequence El Paraíso, Central Spain. Quaternary International, 2016, 407, 64-73. | 1.5 | 15 |
| 36 | Nanoscale three-dimensional reconstruction of elastic and inelastic mean free path lengths by electron holographic tomography. Applied Physics Letters, 2014, 105, . | 3.3 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Simulation and synthesis of $\text{I}^{\pm}\text{-MoCl}_3$ nanosheets on substrates by short time chemical vapor transport. Nano Structures Nano Objects, 2019, 19, 100324. | 3.5 | 12 |
| 38 | River braiding caused by rapid floodplain deformation – Insights from Holocene dynamics of the Jarama River in central Spain. Quaternary International, 2016, 407, 126-139. | 1.5 | 11 |
| 39 | Sponge-like Si-SiO_2 nanocomposite – Morphology studies of spinodally decomposed silicon-rich oxide. Applied Physics Letters, 2013, 103, 131911. | 3.3 | 10 |
| 40 | Voltage-controlled ON switching and manipulation of magnetization via the redox transformation of $\text{I}^2\text{-FeOOH}$ nanoplatelets. Journal Physics D: Applied Physics, 2020, 53, 084001. | 2.8 | 10 |
| 41 | Quantitative determination of elastic and inelastic attenuation coefficients by off-axis electron holography. Ultramicroscopy, 2016, 171, 26-33. | 1.9 | 9 |
| 42 | Nanomorphology Effects in Semiconductors with Native Ferromagnetism: Hierarchical Europium (II) Oxide Tubes Prepared via a Topotactic Nanostructure Transition. Advanced Materials, 2018, 30, 1703612. | 21.0 | 9 |
| 43 | Silver Particles with Rhombicuboctahedral Shape and Effective Isotropic Interactions with Light. Chemistry of Materials, 2019, 31, 2822-2827. | 6.7 | 9 |
| 44 | Observation of fractional spin textures in a Heusler material. Nature Communications, 2022, 13, 2348. | 12.8 | 9 |
| 45 | 3D mapping of nanoscale electric potentials in semiconductor structures using electron-holographic tomography. Journal Physics D: Applied Physics, 2016, 49, 364004. | 2.8 | 8 |
| 46 | Nanoscale spectroscopic imaging of GaAs-AlGaAs quantum well tube nanowires: correlating luminescence with nanowire size and inner multishell structure. Nanophotonics, 2019, 8, 1567-1577. | 6.0 | 8 |
| 47 | Layered van der Waals Topological Metals of TaTMTe ₄ (TM = Ir, Rh, Ru) Family. Journal of Physical Chemistry Letters, 2021, 12, 6730-6735. | 4.6 | 8 |
| 48 | Thermodynamic Evaluation and Chemical Vapor Transport of Few-Layer WTe_2 . Crystal Growth and Design, 2020, 20, 7341-7349. | 3.0 | 7 |
| 49 | Field tunable three-dimensional magnetic nanotextures in cobalt-nickel nanowires. Physical Review Research, 2021, 3, . | 3.6 | 6 |
| 50 | Electron tomography of InAs quantum dots using dark field TEM imaging conditions. Journal of Microscopy, 2010, 237, 148-154. | 1.8 | 5 |
| 51 | Freestanding Nanolayers of a Wide-Gap Topological Insulator through Liquid-Phase Exfoliation. Chemistry - A European Journal, 2021, 27, 794-801. | 3.3 | 5 |
| 52 | Incommensurate magnet iron monophosphide FeP: Crystal growth and characterization. Physical Review Materials, 2020, 4, . | 2.4 | 5 |
| 53 | Autocorrected off-axis holography of two-dimensional materials. Physical Review Research, 2020, 2, . | 3.6 | 5 |
| 54 | Size-Specific Magnetic Configurations in Electrodeposited Epitaxial Iron Nanocuboids: From Landau Pattern to Vortex and Single Domain States. Nano Letters, 2022, 22, 4006-4012. | 9.1 | 5 |

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|----|--|-----|-----------|
| 55 | TEM and electron holography analyses of granular and thin layered Cu-Co magnetic materials. Ultramicroscopy, 2010, 110, 433-437. | 1.9 | 4 |
| 56 | Three-Dimensional Imaging of Beam-Induced Biasing of InP/GaInP Tunnel Diodes. Nano Letters, 2019, 19, 3490-3497. | 9.1 | 4 |
| 57 | Conjugated Polymer-Gold-Silver Hybrid Nanoparticles for Plasmonic Energy Focusing. Journal of Physical Chemistry C, 2022, 126, 2475-2481. | 3.1 | 4 |
| 58 | Towards Quantitative Electron-Holographic Tomography. Microscopy and Microanalysis, 2007, 13, 112-113. | 0.4 | 3 |
| 59 | Fundamentals of Focal Series Inline Electron Holography. Advances in Imaging and Electron Physics, 2016, 197, 105-147. | 0.2 | 3 |
| 60 | Three-dimensional potential mapping of nanostructures with electron-holographic tomography. , 2008, , 339-340. | | 3 |
| 61 | Synthesis of micro- and nanosheets of CrCl ₃ -RuCl ₃ solid solution by chemical vapour transport. Nanoscale, 2022, 14, 10483-10492. | 5.6 | 3 |
| 62 | Development and Application of Electron Holographic Tomography for the Three- Dimensional Mapping of Electrostatic Potentials. Microscopy and Microanalysis, 2013, 19, 1362-1363. | 0.4 | 1 |
| 63 | Three-dimensional Induction Mapping of Magnetic Nanoscale Materials by Electron Holographic Tomography. Microscopy and Microanalysis, 2016, 22, 1690-1691. | 0.4 | 1 |
| 64 | Model-based magnetization retrieval from holographic phase images. Ultramicroscopy, 2017, 176, 177-187. | 1.9 | 1 |
| 65 | Magnetic Configurations in Three-Dimensional Nanomagnets Explored by Electron Holographic Tomography. Microscopy and Microanalysis, 2018, 24, 914-915. | 0.4 | 1 |
| 66 | Towards Induction Mapping of the 3D Spin Texture of Skyrmions. Microscopy and Microanalysis, 2018, 24, 930-931. | 0.4 | 1 |
| 67 | 2D and 3D Electron Holography Revealing Complex Magnetic Configurations in CoNi Nanowires. Microscopy and Microanalysis, 2020, 26, 1544-1545. | 0.4 | 1 |
| 68 | Electron Tomography for 3D Imaging of Nanoscale Materials. Praktische Metallographie/Practical Metallography, 2018, 55, 527-538. | 0.3 | 1 |
| 69 | Direct Deposition of (Bi _x Sb _{1-x}) ₂ Te ₃ Nanosheets on Si/SiO ₂ Substrates by Chemical Vapor Transport. Crystal Growth and Design, 2022, 22, 2354-2363. | 3.0 | 1 |
| 70 | Electrostatic Potentials of Nanostructures Revealed in 3D by Electron Holographic Tomography. Microscopy and Microanalysis, 2013, 19, 580-581. | 0.4 | 0 |
| 71 | Electron Holography at Low Voltages Exemplified by Graphene. Microscopy and Microanalysis, 2013, 19, 1384-1385. | 0.4 | 0 |
| 72 | Off-axis Electron Holography on 2D Materials with Small Coherent and Incoherent Aberrations. Microscopy and Microanalysis, 2021, 27, 128-129. | 0.4 | 0 |

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|----|---|----|-----------|
| 73 | Electron tomography of mesostructured cellular foam silica. , 2008, , 301-302. | | 0 |
| 74 | Comparison of 3D potential structures at different pn-junctions in FIB-prepared silicon and germanium samples measured by electron-holographic tomography. , 2008, , 21-22. | | 0 |
| 75 | Detailed investigation of a tunnel oxide defect in a flash memory cell using TEM-tomography. , 2008, , 29-30. | | 0 |
| 76 | Characterization of Ni-Mn-Ga magnetic shape memory alloys using electron holography and Lorentz microscopy. , 2008, , 629-630. | | 0 |