

Stefan Heun

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8133548/publications.pdf>

Version: 2024-02-01

203
papers

4,314
citations

109137

35
h-index

155451

55
g-index

210
all docs

210
docs citations

210
times ranked

4767
citing authors

#	ARTICLE	IF	CITATIONS
1	SPELEEM: Combining LEEM and Spectroscopic Imaging. Surface Review and Letters, 1998, 05, 1287-1296.	0.5	242
2	Rapid CVD growth of millimetre-sized single crystal graphene using a cold-wall reactor. 2D Materials, 2015, 2, 014006.	2.0	143
3	Revealing the atomic structure of the buffer layer between SiC(0 0 0 1) and epitaxial graphene. Carbon, 2013, 51, 249-254.	5.4	135
4	Wetting of Si surfaces by Au-Si liquid alloys. Journal of Applied Physics, 2003, 93, 3886-3892.	1.1	132
5	Influence of Graphene Curvature on Hydrogen Adsorption: Toward Hydrogen Storage Devices. Journal of Physical Chemistry C, 2013, 117, 11506-11513.	1.5	125
6	Tuning Surface Reactivity via Electron Quantum Confinement. Physical Review Letters, 2004, 93, 196103.	2.9	121
7	Head-to-head domain-wall phase diagram in mesoscopic ring magnets. Applied Physics Letters, 2004, 85, 5637-5639.	1.5	118
8	Surface roughness and conductivity of thin Ag films. Physical Review B, 1994, 49, 4858-4865.	1.1	101
9	Work functions of individual single-walled carbon nanotubes. Applied Physics Letters, 2004, 85, 127-129.	1.5	99
10	Observation of thermally activated domain wall transformations. Applied Physics Letters, 2006, 88, 052507.	1.5	96
11	Direct observation of spin configurations and classification of switching processes in mesoscopic ferromagnetic rings. Physical Review B, 2003, 68, .	1.1	83
12	The Role of Water in the Preparation and Stabilization of High-Quality Phosphorene Flakes. Advanced Materials Interfaces, 2016, 3, 1500441.	1.9	62
13	Compositional mapping of semiconductor quantum dots and rings. Physics Reports, 2011, 500, 117-173.	10.3	59
14	Polymer-Based Black Phosphorus (bP) Hybrid Materials by in Situ Radical Polymerization: An Effective Tool To Exfoliate bP and Stabilize bP Nanoflakes. Chemistry of Materials, 2018, 30, 2036-2048.	3.2	57
15	Hydrogen storage with titanium-functionalized graphene. Applied Physics Letters, 2013, 103, .	1.5	55
16	Decoration of exfoliated black phosphorus with nickel nanoparticles and its application in catalysis. Chemical Communications, 2017, 53, 10946-10949.	2.2	55
17	Electronic structure at carbon nanotube tips studied by photoemission spectroscopy. Physical Review B, 2001, 63, .	1.1	53
18	Three-dimensional magnetic-flux-closure patterns in mesoscopic Fe islands. Physical Review B, 2005, 72, .	1.1	49

#	ARTICLE	IF	CITATIONS
19	A Perspective on Recent Advances in Phosphorene Functionalization and Its Applications in Devices. European Journal of Inorganic Chemistry, 2019, 2019, 1476-1494.	1.0	49
20	Metallic and nonmetallic conductivity of thin epitaxial silver films. Physical Review B, 1992, 45, 11430-11432.	1.1	48
21	Diffusion Dynamics during the Nucleation and Growth of Ge/Si Nanostructures on Si(111). Physical Review Letters, 2006, 96, 096103.	2.9	47
22	Dip-pen nanolithography with magnetic Fe ₂ O ₃ nanocrystals. Applied Physics Letters, 2004, 84, 5341-5343.	1.5	46
23	Surface diffusion of Au on Si(111): A microscopic study. Physical Review B, 2000, 61, 16121-16128.	1.1	45
24	High lateral resolution spectroscopic imaging of surfaces: The undulator beamline "nanospectroscopy" at Elettra. European Physical Journal Special Topics, 2003, 104, 99-102.	0.2	45
25	Black Phosphorus/Palladium Nanohybrid: Unraveling the Nature of Pd Interaction and Application in Selective Hydrogenation. Chemistry of Materials, 2019, 31, 5075-5080.	3.2	43
26	Composition of Ge(Si) islands in the growth of Ge on Si(111). Applied Physics Letters, 2004, 84, 4526-4528.	1.5	40
27	Composition of Ge(Si) islands in the growth of Ge on Si(111) by x-ray spectromicroscopy. Journal of Applied Physics, 2005, 97, 043516.	1.1	40
28	Quantitative determination of domain wall coupling energetics. Applied Physics Letters, 2006, 88, 212510.	1.5	39
29	Domain wall behaviour at constrictions in ferromagnetic ring structures. Physica B: Condensed Matter, 2004, 343, 343-349.	1.3	38
30	Atomic force microscope anodic oxidation studied by spectroscopic microscopy. Applied Physics Letters, 2002, 81, 2842-2844.	1.5	37
31	Energetically Driven Reorganization of a Modified Catalytic Surface under Reaction Conditions. Journal of the American Chemical Society, 2005, 127, 2351-2357.	6.6	37
32	Tailoring of the structural and magnetic properties of MnAs films grown on GaAs: Strain and annealing effects. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1759.	1.6	37
33	Virgin domain structures in mesoscopic Co patterns: Comparison between simulation and experiment. Journal of Applied Physics, 2005, 98, 043901.	1.1	37
34	Li-intercalated graphene on SiC(0001): An STM study. Physical Review B, 2017, 96, .	1.1	37
35	Electronic structure of carbon nanotubes studied by photoelectron spectromicroscopy. Physical Review B, 2002, 66, .	1.1	36
36	Chemical-state-resolved x-ray standing-wave analysis using chemical shift in photoelectron spectra. Physical Review B, 1995, 51, 14778-14781.	1.1	32

#	ARTICLE	IF	CITATIONS
37	Interface composition and stacking fault density in II-VI/III-V heterostructures. Applied Physics Letters, 1997, 70, 237-239.	1.5	32
38	Spatial Variation of Au Coverage as the Driving Force for Nanoscopic Pattern Formation. Physical Review Letters, 2001, 86, 5088-5091.	2.9	31
39	Tuning the domain wall orientation in thin magnetic strips using induced anisotropy. Applied Physics Letters, 2007, 91, .	1.5	31
40	Increasing the active surface of titanium islands on graphene by nitrogen sputtering. Applied Physics Letters, 2015, 106, .	1.5	31
41	The initial stages of epitaxial growth of silicon on Si(100) $\hat{a}^2 \text{ \AA}^{-1}$. Surface Science, 1991, 243, 132-140.	0.8	29
42	Core-level photoelectron spectroscopy from individual heteroepitaxial nanocrystals on GaAs(001). Physical Review B, 2001, 63, .	1.1	29
43	Surface compositional gradients of InAs \hat{a}^2 GaAs quantum dots. Applied Physics Letters, 2005, 87, 223106.	1.5	29
44	Imaging Fractional Incompressible Stripes in Integer Quantum Hall Systems. Physical Review Letters, 2012, 108, 246801.	2.9	29
45	Toward Quantum Hall Effect in a Josephson Junction. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800222.	1.2	29
46	Low-energy electron microscopy/x-ray magnetic circular dichroism photoemission electron microscopy study of epitaxial MnAs on GaAs. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 2539.	1.6	28
47	Chemical Mapping of Individual Semiconductor Nanostructures. Small, 2006, 2, 401-405.	5.2	28
48	Alignment of Ge Nanoislands on Si(111) by Ga-Induced Substrate Self-Patterning. Physical Review Letters, 2007, 98, 066104.	2.9	28
49	Selective control of edge-channel trajectories by scanning gate microscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1038-1041.	1.3	28
50	Enhanced ambient stability of exfoliated black phosphorus by passivation with nickel nanoparticles. Nanotechnology, 2020, 31, 275708.	1.3	28
51	Application of x-ray direct methods to surface reconstructions: The solution of projected superstructures. Physical Review B, 1998, 57, R4281-R4284.	1.1	27
52	Spatially resolved analysis of edge-channel equilibration in quantum Hall circuits. Physical Review B, 2011, 83, .	1.1	27
53	X-RAY MAGNETIC CIRCULAR DICHROISM IMAGING IN A LOW ENERGY ELECTRON MICROSCOPE. Surface Review and Letters, 2002, 09, 171-176.	0.5	26
54	Spin configurations and classification of switching processes in ferromagnetic rings down to sub-dimensions. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1631-1636.	1.0	26

#	ARTICLE	IF	CITATIONS
55	Hybrid nanocomposites of 2D black phosphorus nanosheets encapsulated in PMMA polymer material: new platforms for advanced device fabrication. <i>Nanotechnology</i> , 2018, 29, 295601.	1.3	24
56	Anyons in quantum Hall interferometry. <i>Nature Reviews Physics</i> , 2021, 3, 698-711.	11.9	24
57	Zn preadsorption on GaAs(100)2 \times 4 prior to ZnSe growth. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1996, 14, 2980.	1.6	23
58	Conductance of Ag on Si(111): a two-dimensional percolation problem. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 2913-2918.	0.7	21
59	Growth of Si on different GaAs surfaces: A comparative study. <i>Physical Review B</i> , 1996, 53, 13534-13541.	1.1	21
60	Pd-Assisted Growth of InAs Nanowires. <i>Crystal Growth and Design</i> , 2010, 10, 4197-4202.	1.4	21
61	Aharonov-Bohm interferometer based on \ln in graphene nanoribbons. <i>Physical Review B</i> , 2016, 93, .		
62	Revealing the Multibonding State between Hydrogen and Graphene-Supported Ti Clusters. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12974-12979.	1.5	21
63	Gold-Catalyzed Oxide Nanopatterns for the Directed Assembly of Ge Island Arrays on Si. <i>Nano Letters</i> , 2007, 7, 2655-2659.	4.5	20
64	Probing the Gate-Voltage-Dependent Surface Potential of Individual InAs Nanowires Using Random Telegraph Signals. <i>ACS Nano</i> , 2011, 5, 2191-2199.	7.3	20
65	Transport anisotropy in \ln electron gases induced by indium concentration modulation. <i>Physical Review B</i> , 2008, 77, .	0.75	
66	Coexistence of Vapor-Liquid-Solid and Vapor-Solid Growth Modes in Pd-Assisted InAs Nanowires. <i>Small</i> , 2010, 6, 1935-1941.	5.2	19
67	Correlation between morphology and transport properties of quasi-free-standing monolayer graphene. <i>Applied Physics Letters</i> , 2014, 105, 221604.	1.5	19
68	Phosphorus oxide gate dielectric for black phosphorus field effect transistors. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	19
69	Desorption dynamics of oxide nanostructures fabricated by local anodic oxidation nanolithography. <i>Journal of Applied Physics</i> , 2005, 97, 114324.	1.1	18
70	Self-organized 2D nanopatterns after low-coverage Ga adsorption on Si (1 1 1). <i>New Journal of Physics</i> , 2005, 7, 193-193.	1.2	18
71	Ohmic contact engineering in few-layer black phosphorus: approaching the quantum limit. <i>Nanotechnology</i> , 2020, 31, 334002.	1.3	18
72	Selective metal electrodeposition through doping modulation of semiconductor surfaces. <i>Applied Physics Letters</i> , 2005, 86, 133108.	1.5	17

#	ARTICLE	IF	CITATIONS
73	A numerical approach to quantify self-ordering among self-organized nanostructures. <i>Surface Science</i> , 2008, 602, 249-258.	0.8	17
74	Kinetics of the evolution of InAs/GaAs quantum dots to quantum rings: A combined x-ray, atomic force microscopy, and photoluminescence study. <i>Physical Review B</i> , 2009, 80, .	1.1	17
75	The nature of charged zig-zag domains in MnAs thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 305, 457-463.	1.0	16
76	Dephasing in strongly anisotropic black phosphorus. <i>Physical Review B</i> , 2016, 94, .	1.1	16
77	Tuning Hydrogen Adsorption on Graphene by Gate Voltage. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11591-11597.	1.5	16
78	Initial stages of nanocrystal growth of compound semiconductors on Si substrates. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996, 80, 129-132.	0.8	15
79	Extremely small diffusion constant of Cs in multiwalled carbon nanotubes. <i>Journal of Applied Physics</i> , 2002, 92, 7527-7531.	1.1	15
80	Direct observation of reaction-induced lateral redistribution of sub-monolayers of Au deposited on a Rh(110) surface. <i>Surface Science</i> , 2004, 566-568, 1130-1136.	0.8	15
81	Imaging backscattering through impurity-induced antidots in quantum Hall constrictions. <i>Physical Review B</i> , 2012, 86, .	1.1	15
82	Tuning of quantum interference in top-gated graphene on SiC. <i>Physical Review B</i> , 2013, 88, .	1.1	15
83	Low-temperature quantum transport in CVD-grown single crystal graphene. <i>Nano Research</i> , 2016, 9, 1823-1830.	5.8	15
84	Full electrostatic control of quantum interference in an extended trenched Josephson junction. <i>Physical Review B</i> , 2019, 99, .	1.1	15
85	<title>Microfocusing VLS-grating-based beamline for advanced microscopy</title> . , 1999, 3767, 271.		14
86	Atomic and electronic structure of Si dangling bonds in quasi-free-standing monolayer graphene. <i>Nano Research</i> , 2018, 11, 864-873.	5.8	14
87	STM study of exfoliated few layer black phosphorus annealed in ultrahigh vacuum. <i>2D Materials</i> , 2019, 6, 015005.	2.0	14
88	Hydrogen Spillover and Storage on Graphene with Single-Site Ti Catalysts. <i>ACS Energy Letters</i> , 2022, 7, 2297-2303.	8.8	14
89	Optical layout of a beamline for photoemission microscopy. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 957-963.	1.0	13
90	Conductive atomic force microscopy of InAs•GaAs quantum rings. <i>Applied Physics Letters</i> , 2008, 92, 192105.	1.5	13

#	ARTICLE	IF	CITATIONS
91	MBE growth of self-assisted InAs nanowires on graphene. <i>Semiconductor Science and Technology</i> , 2016, 31, 115005.	1.0	13
92	Interedge backscattering in buried split-gate-defined graphene quantum point contacts. <i>Physical Review B</i> , 2016, 94, .	1.1	13
93	Nanospectroscopy at Elettra. <i>Synchrotron Radiation News</i> , 1999, 12, 25-29.	0.2	12
94	Observation of single-walled carbon nanotubes by photoemission microscopy. <i>Carbon</i> , 2004, 42, 559-563.	5.4	12
95	Photoemission electron microscopy of individual single-walled carbon nanotubes. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 357-360.	0.8	12
96	GaAs Oxide Desorption under Extreme Ultraviolet Photon Flux. <i>Advanced Functional Materials</i> , 2005, 15, 587-592.	7.8	12
97	Magnetic states in wide annular structures. <i>Journal of Applied Physics</i> , 2006, 99, 08G308.	1.1	12
98	Investigation of magnetically coupled ferromagnetic stripe arrays. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 84, 231-236.	1.1	12
99	Adsorbate induced self-ordering of germanium nanoislands on Si(113). <i>New Journal of Physics</i> , 2007, 9, 392-392.	1.2	12
100	Electron Resist Behavior of Pd Hexadecanethiolate Examined Using X-ray Photoelectron Spectroscopy with Nanometric Lateral Resolution. <i>Langmuir</i> , 2009, 25, 1259-1264.	1.6	12
101	Ultra-thin high-quality silicon nitride films on Si(111). <i>Europhysics Letters</i> , 2011, 94, 16003.	0.7	12
102	Stacking faults in pseudomorphic ZnSe-GaAs and lattice-matched ZnSe-In _{0.04} Ga _{0.96} As layers. <i>Philosophical Magazine Letters</i> , 1997, 75, 219-226.	0.5	11
103	EFFECTS OF AIR EXPOSURE AND Cs DEPOSITION ON THE ELECTRONIC STRUCTURE OF MULTIWALLED CARBON NANOTUBES. <i>Surface Review and Letters</i> , 2002, 09, 431-435.	0.5	11
104	Imaging of magnetic nanodots on self-organized semiconductor substrates. <i>Physical Review B</i> , 2005, 71, .	1.1	11
105	Measurement of topological Berry phase in highly disordered graphene. <i>Physical Review B</i> , 2015, 92, .	1.1	11
106	High-Mobility Free-Standing InSb Nanoflags Grown on InP Nanowire Stems for Quantum Devices. <i>ACS Applied Nano Materials</i> , 2021, 4, 5825-5833.	2.4	11
107	Covalent organic functionalization of graphene nanosheets and reduced graphene oxide via 1,3-dipolar cycloaddition of azomethine ylide. <i>Nanoscale Advances</i> , 2021, 3, 5841-5852.	2.2	11
108	Local interface composition and extended defect density in ZnSe/GaAs(001) and ZnSe/In _{0.04} Ga _{0.96} As(001) heterojunctions. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1997, 15, 1279.	1.6	10

#	ARTICLE	IF	CITATIONS
109	Strain and surface morphology in lattice-matched ZnSe/In _x Ga _{1-x} As heterostructures. Journal of Applied Physics, 1998, 83, 2504-2510.	1.1	10
110	Spectro-microscopy of ultra-thin SiN films on Si(). Nuclear Instruments & Methods in Physics Research B, 2003, 200, 79-84.	0.6	10
111	Nanomagnetism studies with spin-polarized low-energy electron microscopy and x-ray magnetic circular dichroism photoemission electron microscopy. Surface and Interface Analysis, 2005, 37, 239-243.	0.8	10
112	Layer-resolved imaging of domain wall interactions in magnetic tunnel junction-like trilayers. Journal of Physics Condensed Matter, 2007, 19, 476204.	0.7	10
113	Gate-controlled supercurrent in ballistic InSb nanoflag Josephson junctions. Applied Physics Letters, 2021, 119, .	1.5	10
114	Magnetoconductivity of thin epitaxial silver films. Applied Physics A: Solids and Surfaces, 1992, 55, 231-234.	1.4	9
115	Local Au coverage as driving force for Au induced faceting of vicinal Si(001): a LEEM and XPEEM study. Surface Science, 2001, 480, 103-108.	0.8	9
116	Evidence of material mixing during local anodic oxidation nanolithography. Journal of Applied Physics, 2005, 98, 114303.	1.1	9
117	Microscopy of mesoscopic ferromagnetic systems with slow electrons. Surface and Interface Analysis, 2006, 38, 1622-1627.	0.8	9
118	Chemistry and formation process of Ga(Al)As oxide during local anodic oxidation nanolithography. Surface Science, 2006, 600, 3739-3743.	0.8	9
119	Experimental investigation of the spin reorientation of Co/Au based magnetic nanodot arrays. Physical Review B, 2008, 77, .	1.1	9
120	Impact of electron heating on the equilibration between quantum Hall edge channels. Physical Review B, 2011, 84, .	1.1	9
121	Morphology and electronic properties of incipient soot by scanning tunneling microscopy and spectroscopy. Combustion and Flame, 2022, 243, 111980.	2.8	9
122	Zn _{0.85} Cd _{0.15} Se active layers on graded-composition In _x Ga _{1-x} As buffer layers. Journal of Applied Physics, 1999, 85, 8160-8169.	1.1	8
123	Manipulating quantum Hall edge channels in graphene through scanning gate microscopy. Physical Review B, 2017, 96, .	1.1	8
124	Nonclassical Longitudinal Magnetoresistance in Anisotropic Black Phosphorus. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900347.	1.2	8
125	Magnetoconductivity of thin epitaxial NiSi ₂ films in UHV at low temperatures. Physical Review B, 1991, 44, 8984-8989.	1.1	7
126	Spectromicroscopy of ultrathin Pd films on W(110):. Applied Surface Science, 2004, 238, 138-142.	3.1	7

#	ARTICLE	IF	CITATIONS
127	Photoelectron spectroscopy and microscopy of carbon nanotubes. <i>Current Opinion in Solid State and Materials Science</i> , 2006, 10, 53-59.	5.6	7
128	Morphology and Composition of InAs/GaAs Quantum Dots. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 1721-1725.	0.9	7
129	Catalytic Behavior of Individual Au Nanocrystals in the Local Anodic Oxidation of Si Surfaces. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13311-13316.	1.5	7
130	Surface compositional mapping of self-assembled InAs/GaAs quantum rings. <i>Journal of Crystal Growth</i> , 2009, 311, 1764-1766.	0.7	7
131	Composition uniformity of site-controlled InAs/GaAs quantum dots. <i>Journal of Crystal Growth</i> , 2011, 323, 176-179.	0.7	7
132	Large-Area Ohmic Top Contact to Vertically Grown Nanowires Using a Free-Standing Au Microplate Electrode. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1860-1864.	4.0	7
133	Bilayer-induced asymmetric quantum Hall effect in epitaxial graphene. <i>Semiconductor Science and Technology</i> , 2015, 30, 055007.	1.0	7
134	Scanning gate imaging of quantum point contacts and the origin of the 0.7 anomaly. <i>Nano Research</i> , 2015, 8, 948-956.	5.8	7
135	Efficient n-type doping in epitaxial graphene through strong lateral orbital hybridization of Ti adsorbate. <i>Carbon</i> , 2016, 109, 300-305.	5.4	7
136	Unraveling localized states in quasi free standing monolayer graphene by means of Density Functional Theory. <i>Carbon</i> , 2018, 130, 466-474.	5.4	7
137	Black Phosphorus n-Type Doping by Cu: A Microscopic Surface Investigation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13477-13484.	1.5	7
138	Nanoscale Imaging and Spectroscopy with XPEEM. <i>Hyomen Kagaku</i> , 2005, 26, 721-728.	0.0	7
139	(NH ₄) ₂ Sx-treated InP(100) surfaces studied by soft x-ray photoelectron spectroscopy. <i>Journal of Electronic Materials</i> , 1996, 25, 593-596.	1.0	6
140	Lateral inhomogeneities in engineered Schottky barriers. <i>Journal of Crystal Growth</i> , 1999, 201-202, 795-799.	0.7	6
141	XPEEM Study of Liquid Au-Si Droplets on Si(111) near to the Eutectic Point. <i>Defect and Diffusion Forum</i> , 2000, 183-185, 181-188.	0.4	6
142	Valence band alignment and work function of heteroepitaxial nanocrystals on GaAs(001). <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 2057.	1.6	6
143	Real examples of surface reconstructions determined by direct methods. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 4075-4086.	0.7	6
144	Imaging low-dimensional magnetism with slow electrons. <i>Applied Surface Science</i> , 2005, 249, 38-44.	3.1	6

#	ARTICLE	IF	CITATIONS
145	Orientation and interface effects on the structural and magnetic properties of MnAs-on-GaAs hybrid structures. <i>European Physical Journal Special Topics</i> , 2006, 132, 159-162.	0.2	6
146	X-ray induced variation of the chemistry of GaAs/AlAs oxide nanostructures. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 246, 39-44.	0.6	6
147	Temperature dependent low energy electron microscopy study of Ge growth on Si(113). <i>Applied Surface Science</i> , 2006, 252, 5321-5325.	3.1	6
148	From nanoislands to nanowires: Growth of germanium on gallium-terminated silicon surfaces. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1718-1722.	0.8	6
149	Heterogeneous nucleation of catalyst-free InAs nanowires on silicon. <i>Nanotechnology</i> , 2017, 28, 065603.	1.3	6
150	Morphology of Ti on Monolayer Nanocrystalline Graphene and Its Unexpectedly Low Hydrogen Adsorption. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1572-1578.	1.5	6
151	Real-time low-energy electron microscopy study of Ga adsorption and facet array formation on Si(113). <i>E-Journal of Surface Science and Nanotechnology</i> , 2005, 3, 379-383.	0.1	6
152	Preliminary Spectromicroscopic Measurements of Self-Organized InAs Nanocrystals by SPELEEM. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 556.	0.8	6
153	Selective Activation and Passivation of Nanoparticle Catalysts through Substrate Mediation. <i>Langmuir</i> , 2003, 19, 10629-10631.	1.6	5
154	LEEM and XPEEM studies of C-AFM induced surface modifications of thermally grown SiO ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 1163-1166.	0.8	5
155	Perfecting the Growth and Transfer of Large Single-Crystal CVD Graphene: A Platform Material for Optoelectronic Applications. <i>Carbon Nanostructures</i> , 2017, , 113-124.	0.1	5
156	A sensitive calorimetric technique to study energy (heat) exchange at the nano-scale. <i>Nanoscale</i> , 2018, 10, 10079-10086.	2.8	5
157	Cascaded Quantum Hall Bisection and Applications to Quantum Metrology. <i>Physical Review Applied</i> , 2020, 14, .	1.5	5
158	Morphology of epitaxial SrF ₂ films on atomically modified InP(100). <i>Applied Surface Science</i> , 1994, 82-83, 507-515.	3.1	4
159	ZnSe Growth on Lattice-Matched In _x Ga _{1-x} As Substrates. <i>Surface Review and Letters</i> , 1998, 05, 693-700.	0.5	4
160	Magnetic domain walls in T-shaped permalloy microstructures. <i>Applied Physics Letters</i> , 2005, 86, 152503.	1.5	4
161	Behavior of SiO ₂ nanostructures under intense extreme ultraviolet illumination. <i>Journal of Applied Physics</i> , 2005, 97, 104333.	1.1	4
162	DIP-PEN NANOLITHOGRAPHY USING COLLOIDAL INKS. <i>International Journal of Nanoscience</i> , 2005, 04, 921-934.	0.4	4

#	ARTICLE	IF	CITATIONS
163	In situ nanoscale mapping of the chemical composition of surfaces and 3D nanostructures by photoelectron spectromicroscopy. <i>Nanotechnology</i> , 2008, 19, 265703.	1.3	4
164	Photoemission Microscopy Studies of Quantum Dots and Rings. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2011, 6, 20-33.	0.1	4
165	Evidence of Josephson Coupling in a Few-Layer Black Phosphorus Planar Josephson Junction. <i>ACS Nano</i> , 2022, 16, 3538-3545.	7.3	4
166	Cathodoluminescence from $\text{In}_x\text{Ga}_{1-x}$ as Layers Grown on GaAs Using a Transmission Electron Microscope. <i>Materials Research Society Symposia Proceedings</i> , 1999, 588, 245.	0.1	3
167	Spectroscopic identification and imaging of surface processes occurring at microscopic and mesoscopic scales. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 361-366.	0.8	3
168	Imaging of ferroelectric thin films by X-ray photoemission electron microscopy (XPEEM). <i>Ultramicroscopy</i> , 2005, 104, 169-175.	0.8	3
169	Dynamic probe of atom exchange during monolayer growth. <i>Physical Review B</i> , 2012, 85, .	1.1	3
170	Domain Wall Spin Structures in 3d Metal Ferromagnetic Nanostructures. , 2008, , 281-293.		3
171	3D arrangement of epitaxial graphene conformally grown on porous crystalline SiC. <i>Carbon</i> , 2022, 189, 210-218.	5.4	3
172	Ordering of sulfur interlayer in molecular beam epitaxy-grown $\text{SrF}_2/\text{S}/\text{GaAs}(111)$ A and B. <i>Journal of Crystal Growth</i> , 1995, 150, 1098-1103.	0.7	2
173	Morphology of thin SrF_2 films on $\text{InP}(111)$ studied by reflection high-energy electron diffraction. <i>Journal of Crystal Growth</i> , 1995, 150, 1108-1114.	0.7	2
174	X-ray absorption fine structure studies of sulfur interlayers in molecular beam epitaxy grown $\text{SrF}_2/\text{S}/\text{GaAs}(111)$. <i>Journal of Crystal Growth</i> , 1995, 150, 1122-1125.	0.7	2
175	Transmission electron microscopy studies of the microstructure of Si layers grown on $\text{GaAs}(001)$ under an excess As or Al flux. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000, 80, 1055-1069.	0.6	2
176	Long-Term Oxidation Behaviour of Lead Sulfide Surfaces. <i>Lecture Notes in Physics</i> , 2002, , 111-120.	0.3	2
177	AFM anodization studied by spectromicroscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 200, 46-51.	0.6	2
178	Surface Concentration Mapping of InAs/GaAs Quantum Dots. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	2
179	Structural and Magnetic Properties of Epitaxial Fe and Ni Thin Films Grown on $\text{n-AlGaAs}(001)$ Using Electrodeposition. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, D43.	2.2	2
180	Surface compositional profiles of self-assembled InAs/GaAs quantum rings. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
181	Investigation of InAs-based devices for topological applications. , 2019, , .		2
182	To measure a magnon population. Nature Physics, 2022, 18, 3-4.	6.5	2
183	The Influence of an Ultrathin Pseudomorphic Interface Control Layer of Si on the Growth of SrF ₂ on GaAs. Materials Science Forum, 1996, 203, 129-136.	0.3	1
184	Lattice-matched Zn _{1-y} Cd _y Se/In _x Ga _{1-x} As(0 0 1) heterostructures. Journal of Crystal Growth, 1998, 184-185, 21-25.	0.7	1
185	Native extended defects in Zn _{1-y} Cd _y Se/In _x Ga _{1-x} As heterostructures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1998, 16, 2334.	1.6	1
186	Growth of thin metal films studied by spectromicroscopy. AIP Conference Proceedings, 2000, , .	0.3	1
187	Electronic structure of multi-walled carbon nanotubes studied by photoemission spectroscopy. AIP Conference Proceedings, 2001, , .	0.3	1
188	MORPHOLOGY AND CHEMISTRY OF S-TREATED GaAs(001) SURFACES. Surface Review and Letters, 2002, 09, 413-423.	0.5	1
189	Surface structures of graphene covered Cu(103). Japanese Journal of Applied Physics, 2018, 57, 100301.	0.8	1
190	Morphology and Magneto-transport in Exfoliated Graphene on Ultrathin Crystalline Si ₃ N ₄ (0001)/Si(111). Advanced Materials Interfaces, 2020, 7, 1902175.	1.9	1
191	An atomically flat single-crystalline gold film thermometer on mica to study energy (heat) exchange at the nano-scale. Applied Surface Science, 2020, 512, 145658.	3.1	1
192	Photoelectron Spectroscopy with a Photoemission Electron Microscope. Lecture Notes in Physics, 2002, , 157-171. Bb-induced ($\text{cmml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ } \text{Tj} \text{ } \text{FTQq1 } \text{ } \text{0.784314} \text{ } \text{rgBT} \text{ } \text{/Overlock } \text{ } \text{10 Tf } \text{ } \text{50 } \text{ } \text{282 } \text{ } \text{Td} \text{ } \text{(a}$	0.3	1
193		0.8	1
194	Metamorphic InAs/InGaAs QWs with electron mobilities exceeding 7 \AA –105cm ² /Vs. Journal of Crystal Growth, 2022, , 126768.	0.7	1
195	Initial stages of the growth of SrF ₂ on InP. Physical Review B, 1995, 52, 14917-14926.	1.1	0
196	Sulfur-treated InP surfaces studied by soft X-ray photoemission spectroscopy. , 0, , .		0
197	Electronic and structural properties of thin SrF ₂ films on InP. , 0, , .		0
198	Transmission electron microscopy studies of the microstructure of Si layers grown on GaAs(001) under an excess As or Al flux. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 1055-1069.	0.6	0

#	ARTICLE	IF	CITATIONS
199	Geometry-dependent head-to-head domain wall phase diagram and domain wall widths in ferromagnetic ring structures. , 2005, , .		0
200	Transformation of femtoliter metal cups to oxide cups: chemical mapping by scanning Auger spectroscopy. Applied Physics A: Materials Science and Processing, 2007, 87, 683-689.	1.1	0
201	Charge down and heat up. Nature Physics, 2012, 8, 640-641.	6.5	0
202	Twoâ€Dimensional Semiconductors: Present and Future Challenges. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000041.	1.2	0
203	Dynamical evolution of Ge quantum dots on Si(111): From island formation to high temperature decay. Aggregate, 0, , .	5.2	0