

David J Smith

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1129671/david-j-smith-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

644
papers

19,031
citations

66
h-index

104
g-index

685
ext. papers

20,361
ext. citations

4.4
avg, IF

6.64
L-index

#	Paper	IF	Citations
644	The sound of recovery: Coral reef restoration success is detectable in the soundscape. <i>Journal of Applied Ecology</i> , 2022 , 59, 742-756	5.8	3
643	The Role of the Double-Layer Potential in Regularised Stokeslet Models of Self-Propulsion. <i>Fluids</i> , 2021 , 6, 411	1.6	
642	Atomic-Resolution Structure Imaging of Misfit Dislocations at Heterovalent III-V/III-V Interfaces. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 2573-2579	4	0
641	Impact of Individual Structural Defects in GaAs Solar Cells: A Correlative and In Operando Investigation of Signatures, Structures, and Effects. <i>Advanced Optical Materials</i> , 2021 , 9, 2001487	8.1	3
640	Knocking on the door: policy, agency and path creation in the post-industrial city. <i>European Planning Studies</i> , 2021 , 29, 899-922	3.2	
639	Resolving conservation and development tensions in a small island state: A governance analysis of Curieuse Marine National Park, Seychelles. <i>Marine Policy</i> , 2021 , 127, 103617	3.5	4
638	Heads and Tails: Requirements for Informative and Robust Computational Measures of Sperm Motility 2021 , 135-150		
637	Approaches to Phase Imaging in the Electron Microscope. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1546-1546		
636	A hyperspectral unmixing framework for energy-loss near-edge structure analysis. <i>Ultramicroscopy</i> , 2020 , 218, 113096	3.1	2
635	Effects of growth temperature on electrical properties of GaN/AlN based resonant tunneling diodes with peak current density up to 1.01 MA/cm ² . <i>AIP Advances</i> , 2020 , 10, 055307	1.5	5
634	Annealing Effects on the Band Alignment of ALD SiO ₂ on (In _x Ga _{1-x}) ₂ O ₃ for x = 0.25-0.74. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 045001	2	
633	Direct Observation of Large Atomic Polar Displacements in Epitaxial Barium Titanate Thin Films. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000555	4.6	4
632	Prevention of Adrenal Crisis: Cortisol Responses to Major Stress Compared to Stress Dose Hydrocortisone Delivery. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020 , 105,	5.6	35
631	Changes in band alignment during annealing at 600 °C of ALD Al ₂ O ₃ on (In _x Ga _{1-x}) ₂ O ₃ for x = 0.25-0.74. <i>Journal of Applied Physics</i> , 2020 , 127, 105701	2.5	3
630	Investigation of polycrystalline Ga _x In _{1-x} P for potential use as a solar cell absorber with tunable bandgap. <i>Journal of Applied Physics</i> , 2020 , 127, 073102	2.5	2
629	Reverse Leakage Analysis for As-Grown and Regrown Vertical GaN-on-GaN Schottky Barrier Diodes. <i>IEEE Journal of the Electron Devices Society</i> , 2020 , 1-1	2.3	19
628	Coral microbiome composition along the northern Red Sea suggests high plasticity of bacterial and specificity of endosymbiotic dinoflagellate communities. <i>Microbiome</i> , 2020 , 8, 8	16.6	26

627	Layered two-dimensional selenides and tellurides grown by molecular beam epitaxy 2020 , 235-269		1
626	Doing more with less: The flagellar end piece enhances the propulsive effectiveness of human spermatozoa. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	7
625	The Making of Innovative Entrepreneurs in Business Schools in a Resource Constrained Environment. <i>Proceedings - Academy of Management</i> , 2020 , 2020, 19277	0.1	
624	Rapid optofluidic detection of biomarkers for traumatic brain injury via surface-enhanced Raman spectroscopy. <i>Nature Biomedical Engineering</i> , 2020 , 4, 610-623	19	49
623	Coral bleaching patterns are the outcome of complex biological and environmental networking. <i>Global Change Biology</i> , 2020 , 26, 68-79	11.4	52
622	Strategies for Analyzing Noncommon-Atom Heterovalent Interfaces: The Case of CdTe-on-InSb. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901658	4.6	9
621	Structural breakdown in high power GaN-on-GaN p-n diode devices stressed to failure. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 063402	2.9	4
620	Atomic-resolution structure imaging of defects and interfaces in compound semiconductors. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2020 , 66, 100498	3.5	9
619	Dielectric breakdown in epitaxial BaTiO ₃ thin films. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2020 , 38, 044007	1.3	1
618	Formation of metastable bc8 phase from crystalline Si _{0.5} Ge _{0.5} by high-pressure torsion. <i>Materials Characterization</i> , 2020 , 169, 110590	3.9	6
617	Passively parallel regularized stokeslets. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190528	3	4
616	Plasma Enhanced Atomic Layer-etched and Regrown GaN-on-GaN High Power p-n Diodes. <i>Microscopy and Microanalysis</i> , 2020 , 26, 840-842	0.5	
615	Coral microbiome diversity reflects mass coral bleaching susceptibility during the 2016 El Niño heat wave. <i>Ecology and Evolution</i> , 2019 , 9, 938-956	2.8	28
614	Switching Behavior and Forward Bias Degradation of 700V, 0.2A, E _G Ga ₂ O ₃ Vertical Geometry Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3028-Q3033	2	12
613	Defects at the surface of E _G Ga ₂ O ₃ produced by Ar plasma exposure. <i>APL Materials</i> , 2019 , 7, 061102	5.7	25
612	Damage Recovery and Dopant Diffusion in Si and Sn Ion Implanted E _G Ga ₂ O ₃ . <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3133-Q3139	2	20
611	Sharp Quadrature Error Bounds for the Nearest-Neighbor Discretization of the Regularized Stokeslet Boundary Integral Equation. <i>SIAM Journal of Scientific Computing</i> , 2019 , 41, B139-B152	2.6	6
610	Self-assembled Bismuth Selenide (BiSe) quantum dots grown by molecular beam epitaxy. <i>Scientific Reports</i> , 2019 , 9, 3370	4.9	18

609	Strain-dependence of $\langle Q \rangle$ in thin film barium strontium titanate. <i>AIP Advances</i> , 2019 , 9, 025312	1.5	3
608	60Co Gamma Ray Damage in Homoepitaxial Ga_2O_3 Schottky Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3041-Q3045	2	10
607	Molecular beam epitaxial growth and structural properties of hetero-crystalline and heterovalent PbTe/CdTe/InSb structures. <i>Journal of Applied Physics</i> , 2019 , 126, 045708	2.5	3
606	Motile curved bacteria are Pareto-optimal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14440-14447	11.5	29
605	Growth Habits of Bismuth Selenide (Bi_2Se_3) Layers and Nanowires over Stranski-Krastanov Indium Arsenide Quantum Dots. <i>Crystal Growth and Design</i> , 2019 , 19, 6989-6993	3.5	2
604	Electron Holography. <i>Springer Handbooks</i> , 2019 , 767-818	1.3	8
603	Quantitative measurement of nanoscale electrostatic potentials and charges using off-axis electron holography: Developments and opportunities. <i>Ultramicroscopy</i> , 2019 , 203, 105-118	3.1	12
602	Epitaxial Oxides on Glass: A Platform for Integrated Oxide Devices. <i>ACS Applied Nano Materials</i> , 2019 , 2, 7713-7718	5.6	4
601	Microstructural Characterization of Defects and Chemical Etching for HgCdSe/ZnTe/Si (211) Heterostructures. <i>Journal of Electronic Materials</i> , 2019 , 48, 571-582	1.9	2
600	Strain relaxation in low-mismatched GaAs/GaAs $_{1-x}$ Sb $_x$ /GaAs heterostructures. <i>Acta Materialia</i> , 2019 , 162, 103-115	8.4	10
599	Surface structure analysis of Eu Zintl template on Ge(001). <i>Surface Science</i> , 2018 , 674, 94-102	1.8	7
598	BIOLOGICAL FLUID MECHANICS UNDER THE MICROSCOPE: A TRIBUTE TO JOHN BLAKE. <i>ANZIAM Journal</i> , 2018 , 59, 416-442	0.5	2
597	Green innovation and the development of sustainable communities: The case of Blueprint Regeneration Trent Basin development. <i>International Journal of Entrepreneurship and Innovation</i> , 2018 , 19, 21-32	1.5	20
596	Nottingham Express Transit: The role of green innovation in the drive for sustainable mobility through improved public transport. <i>International Journal of Entrepreneurship and Innovation</i> , 2018 , 19, 56-68	1.5	2
595	Growth of II-VI/III-V heterovalent quantum structures. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018 , 36, 02D110	1.3	5
594	Thermal refugia against coral bleaching throughout the northern Red Sea. <i>Global Change Biology</i> , 2018 , 24, e474-e484	11.4	107
593	Crystalline SrZrO $_3$ deposition on Ge (001) by atomic layer deposition for high-k dielectric applications. <i>Journal of Applied Physics</i> , 2018 , 124, 044102	2.5	9
592	Atomic structure of dissociated 60° dislocations in GaAs/GaAs $_{0.92}$ Sb $_{0.08}$ /GaAs heterostructures. <i>Scripta Materialia</i> , 2018 , 153, 77-80	5.6	4

591	Impact of metastable phases on electrical properties of Si with different doping concentrations after processing by high-pressure torsion. <i>Scripta Materialia</i> , 2018 , 157, 120-123	5.6	11
590	Meshfree and efficient modeling of swimming cells. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	14
589	Effect of SrTiO ₃ oxygen vacancies on the conductivity of LaTiO ₃ /SrTiO ₃ heterostructures. <i>Journal of Applied Physics</i> , 2018 , 124, 185303	2.5	14
588	EuO epitaxy by oxygen scavenging on SrTiO ₃ (001): Effect of SrTiO ₃ thickness and temperature. <i>Journal of Applied Physics</i> , 2018 , 124, 235301	2.5	6
587	Investigation of defect creation in GaP/Si(0 0 1) epitaxial structures. <i>Journal of Crystal Growth</i> , 2018 , 503, 36-44	1.6	10
586	An EELS signal-from-background separation algorithm for spectral line-scan/image quantification. <i>Ultramicroscopy</i> , 2018 , 195, 25-31	3.1	6
585	Large positive linear magnetoresistance in the two-dimensional t electron gas at the EuO/SrTiO interface. <i>Scientific Reports</i> , 2018 , 8, 7721	4.9	31
584	Nanoparticle transport across model cellular membranes: when do solubility-diffusion models break down?. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 294004	3	10
583	The scientific careers of Robert Sinclair and Nestor Zaluzec - A brief sketch. <i>Ultramicroscopy</i> , 2017 , 176, 2-4	3.1	
582	Zintl layer formation during perovskite atomic layer deposition on Ge (001). <i>Journal of Chemical Physics</i> , 2017 , 146, 052817	3.9	9
581	Structural evolution of dilute magnetic (Sn,Mn)Se films grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2017 , 121, 075301	2.5	5
580	Unraveling Hydrophobic Interactions at the Molecular Scale Using Force Spectroscopy and Molecular Dynamics Simulations. <i>ACS Nano</i> , 2017 , 11, 2586-2597	16.7	28
579	Observation of compound semiconductors and heterovalent interfaces using aberration-corrected scanning transmission electron microscopy. <i>Journal of Materials Research</i> , 2017 , 32, 921-927	2.5	6
578	Surface preparation of freestanding GaN substrates for homoepitaxial GaN growth by rf-plasma MBE. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2017 , 35, 02B1093	1.3	19
577	High-resolution transmission electron microscopy analysis of bulk nanograined silicon processed by high-pressure torsion. <i>Materials Characterization</i> , 2017 , 129, 163-168	3.9	17
576	Correlation of Etch Pits and Dislocations in As-grown and Thermal Cycle-Annealed HgCdTe(211) Films. <i>Journal of Electronic Materials</i> , 2017 , 46, 5007-5019	1.9	5
575	Can Simple Interaction Models Explain Sequence-Dependent Effects in Peptide Homodimerization?. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 5928-5943	3.4	2
574	Substrate-independent analysis of microcrystalline silicon thin films using UV Raman spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700204	1.3	4

573	Recent studies of oxide-semiconductor heterostructures using aberration-corrected scanning transmission electron microscopy. <i>Journal of Materials Research</i> , 2017 , 32, 912-920	2.5	7
572	Band offsets of epitaxial cubic boron nitride deposited on polycrystalline diamond via plasma-enhanced chemical vapor deposition. <i>Applied Physics Letters</i> , 2017 , 111, 171604	3.4	11
571	Microscale magnetic compasses. <i>Journal of Applied Physics</i> , 2017 , 122, 094301	2.5	
570	High-resolution transmission electron microscopy analysis of nanograined germanium produced by high-pressure torsion. <i>Materials Characterization</i> , 2017 , 132, 132-138	3.9	16
569	Adaptive capability and path creation in the post-industrial city: the case of Nottingham's biotechnology sector. <i>Cambridge Journal of Regions, Economy and Society</i> , 2017 , 10, 491-508	3.3	5
568	Institutions, place leadership and public entrepreneurship: Reinterpreting the economic development of Nottingham. <i>Local Economy</i> , 2017 , 32, 374-392	1.2	17
567	Epitaxial growth of barium titanate thin films on germanium via atomic layer deposition. <i>Journal of Crystal Growth</i> , 2017 , 476, 6-11	1.6	12
566	Integration of ferroelectric BaTiO ₃ with Ge: The role of a SrTiO ₃ buffer layer investigated using aberration-corrected STEM. <i>Applied Physics Letters</i> , 2017 , 110, 252901	3.4	5
565	Above 400-K robust perpendicular ferromagnetic phase in a topological insulator. <i>Science Advances</i> , 2017 , 3, e1700307	14.3	96
564	AlGa _N /Ga _N High Electron Mobility Transistor Grown and Fabricated on ZrTi Metallic Alloy Buffer Layers. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, S3078-S3080	2	1
563	Critical issues for homoepitaxial Ga _N growth by molecular beam epitaxy on hydride vapor-phase epitaxy-grown Ga _N substrates. <i>Journal of Crystal Growth</i> , 2016 , 456, 121-132	1.6	24
562	Characterization of structural defects in SnSe ₂ thin films grown by molecular beam epitaxy on GaAs (111)B substrates. <i>Journal of Crystal Growth</i> , 2016 , 453, 58-64	1.6	10
561	Impact of severe plastic deformation on microstructure and hydrogen storage of titanium-iron-manganese intermetallics. <i>Scripta Materialia</i> , 2016 , 124, 108-111	5.6	29
560	Contradictory nature of Co doping in ferroelectric BaTiO ₃ . <i>Physical Review B</i> , 2016 , 94,	3.3	7
559	Direct Mapping of Charge Distribution during Lithiation of Ge Nanowires Using Off-Axis Electron Holography. <i>Nano Letters</i> , 2016 , 16, 3748-53	11.5	31
558	Towards defect-free epitaxial CdTe and MgCdTe layers grown on InSb (001) substrates. <i>Journal of Crystal Growth</i> , 2016 , 439, 99-103	1.6	10
557	Characterization of electrical properties in axial Si-Ge nanowire heterojunctions using off-axis electron holography and atom-probe tomography. <i>Journal of Applied Physics</i> , 2016 , 120, 104301	2.5	9
556	Monolithic integration of perovskites on Ge(001) by atomic layer deposition: a case study with SrHf _x Ti _{1-x} O ₃ . <i>MRS Communications</i> , 2016 , 6, 125-132	2.7	13

555	Bright-field imaging of compound semiconductors using aberration-corrected scanning transmission electron microscopy. <i>Semiconductor Science and Technology</i> , 2016 , 31, 094002	1.8	7
554	Structural characterization of niobium oxide thin films grown on SrTiO ₃ (111) and (La,Sr)(Al,Ta)O ₃ (111) substrates. <i>Journal of Applied Physics</i> , 2016 , 120, 245302	2.5	10
553	Evaluation of AlGa _{0.2} N/GaN high electron mobility transistors grown on ZrTi buffer layers with sapphire substrates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016 , 34, 051208	1.3	4
552	Continuous control of spin polarization using a magnetic field. <i>Applied Physics Letters</i> , 2016 , 108, 212401	3.4	1
551	Evaluation of antimony segregation in InAs/InAs _{1-x} Sb _x type-II superlattices grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2016 , 119, 095702	2.5	35
550	Investigation of dilute-nitride alloys of GaAsN _x (0.01 x 0.1). <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016 , 34, 011210	1.3	5
549	Anti-phase boundaries at the SrTiO ₃ /Si(001) interface studied using aberration-corrected scanning transmission electron microscopy. <i>Applied Physics Letters</i> , 2016 , 108, 091605	3.4	15
548	Spectral identification scheme for epitaxially grown single-phase niobium dioxide. <i>Journal of Applied Physics</i> , 2016 , 119, 095308	2.5	7
547	Morphological and microstructural stability of N-polar InAlN thin films grown on free-standing GaN substrates by molecular beam epitaxy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016 , 34, 021512	2.9	1
546	Spectrum and phase mapping across the epitaxial Al ₂ O ₃ /SrTiO ₃ interface. <i>Applied Physics Letters</i> , 2016 , 108, 051606	3.4	7
545	Effect of indium in Al _{0.65} Ga _{0.35} N/Al _{0.8} Ga _{0.2} N MQWs for the development of deep-UV laser structures in the form of graded-index separate confinement heterostructure (GRINSCH). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1165-1169	1.6	15
544	Impact of dynamical scattering on quantitative contrast for aberration-corrected transmission electron microscope images. <i>Micron</i> , 2016 , 89, 77-86	2.3	2
543	Molecular beam epitaxy growth of antimony-based mid-infrared interband cascade photodetectors. <i>Journal of Crystal Growth</i> , 2015 , 425, 364-368	1.6	6
542	Defect creation in InGaAs/GaAs multiple quantum wells: Structural properties. <i>Journal of Crystal Growth</i> , 2015 , 425, 43-48	1.6	5
541	Molecular dynamics simulation study of the association of lidocainium docusate and its derivatives in aqueous solution. <i>Molecular Pharmaceutics</i> , 2015 , 12, 1893-901	5.6	9
540	Domain structure and perpendicular magnetic anisotropy in CoFe/Pd multilayers using off-axis electron holography. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 388, 16-21	2.8	5
539	MBE growth of sharp interfaces in dilute-nitride quantum wells with improved nitrogen-plasma design. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015 , 33, 031209	1.3	8
538	El-antitrypsin variants and the proteinase/antiproteinase imbalance in chronic obstructive pulmonary disease. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 308, L179-90	5.8	41

537	Direct detection and measurement of wall shear stress using a filamentous bio-nanoparticle. <i>Nano Research</i> , 2015 , 8, 3307-3315	10	4
536	Quasi-two-dimensional electron gas at the epitaxial alumina/SrTiO ₃ interface: Control of oxygen vacancies. <i>Journal of Applied Physics</i> , 2015 , 117, 095303	2.5	34
535	Recovery in dc and rf performance of off-state step-stressed AlGa _N /Ga _N high electron mobility transistors with thermal annealing. <i>Applied Physics Letters</i> , 2015 , 106, 153504	3.4	2
534	Plastic Deformation of BaTiO ₃ Ceramics by High-pressure Torsion and Changes in Phase Transformations, Optical and Dielectric Properties. <i>Materials Research Letters</i> , 2015 , 3, 216-221	7.4	52
533	Investigation of MBE-grown InAs _{1-x} Bi _x alloys and Bi-mediated type-II superlattices by transmission electron microscopy. <i>Journal of Crystal Growth</i> , 2015 , 425, 250-254	1.6	19
532	Glyph-Based Video Visualization for Semen Analysis. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2015 , 21, 980-93	4	16
531	Investigation of single-layer/multilayer self-assembled InAs quantum dots on GaAs _{1-x} Sb _x /GaAs composite substrates. <i>Journal of Applied Physics</i> , 2015 , 118, 094303	2.5	4
530	Effect of interfacial oxygen on the microstructure of MBE-grown homoepitaxial N-polar GaN. <i>Journal of Crystal Growth</i> , 2015 , 409, 14-17	1.6	12
529	Determination of Mean Inner Potential and Inelastic Mean Free Path of ZnTe Using Off-Axis Electron Holography and Dynamical Effects Affecting Phase Determination. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1406-1412	0.5	6
528	Charge control in N-polar InAlN high-electron-mobility transistors grown by plasma-assisted molecular beam epitaxy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015 , 33, 061207	1.3	10
527	Effect of proton irradiation energy on AlGa _N /Ga _N metal-oxide semiconductor high electron mobility transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015 , 33, 051208	1.3	8
526	Effect of spacer layer thickness on structural and optical properties of multi-stack InAs/GaAsSb quantum dots. <i>Applied Physics Letters</i> , 2015 , 107, 173109	3.4	8
525	Quasi-two-dimensional electron gas at the interface of Al ₂ O ₃ /SrTiO ₃ heterostructures grown by atomic layer deposition. <i>Journal of Applied Physics</i> , 2015 , 118, 115303	2.5	22
524	Simultaneous Enhancement of Electrical Conductivity and Thermopower of Bi ₂ Te ₃ by Multifunctionality of Native Defects. <i>Advanced Materials</i> , 2015 , 27, 3681-6	24	79
523	An indirect method of studying band alignments in nBn photodetectors using off-axis electron holography. <i>Applied Physics Letters</i> , 2015 , 107, 122109	3.4	4
522	Polymerase Chain Reaction on a Viral Nanoparticle. <i>ACS Synthetic Biology</i> , 2015 , 4, 1316-25	5.7	3
521	Formation of metastable phases in magnesium-titanium system by high-pressure torsion and their hydrogen storage performance. <i>Acta Materialia</i> , 2015 , 99, 150-156	8.4	52
520	Measurement of mean inner potential and inelastic mean free path of ZnO nanowires and nanosheet. <i>Materials Research Express</i> , 2015 , 2, 105003	1.7	3

519	Atomic layer deposition of crystalline SrHfO ₃ directly on Ge (001) for high-k dielectric applications. <i>Journal of Applied Physics</i> , 2015 , 117, 054101	2.5	39
518	Carrier density modulation in a germanium heterostructure by ferroelectric switching. <i>Nature Communications</i> , 2015 , 6, 6067	17.4	64
517	Chapter 1: Characterization of Nanomaterials Using Transmission Electron Microscopy. <i>RSC Nanoscience and Nanotechnology</i> , 2015 , 1-29		12
516	Atomic-scale chemical imaging and quantification of metallic alloy structures by energy-dispersive X-ray spectroscopy. <i>Scientific Reports</i> , 2014 , 4, 3945	4.9	57
515	Molecular beam epitaxy using bismuth as a constituent in InAs and a surfactant in InAs/InAsSb superlattices. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 02C120	1.3	23
514	Effect of proton irradiation on AlGa _N /Ga _N high electron mobility transistor off-state drain breakdown voltage. <i>Applied Physics Letters</i> , 2014 , 104, 082106	3.4	15
513	Enhancement of AlGa _N /Ga _N high electron mobility transistors off-state drain breakdown voltage via backside proton irradiation. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 021203	1.3	6
512	Characterization of a-plane Ga _N templates grown by HVPE and high efficiency deep UV emitting AlGa _N /Al _N MQWs grown by MBE on such templates. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 585-589		3
511	Nanostructure Property Control in AlPSi ₃ /Si(100) Semiconductors Using Direct Molecular Assembly: Theory Meets Experiment at the Atomic Level. <i>Chemistry of Materials</i> , 2014 , 26, 4092-4101	9.6	6
510	Optimization of In ₂ Se ₃ /Si(111) Heteroepitaxy To Enable Bi ₂ Se ₃ /In ₂ Se ₃ Bilayer Growth. <i>Crystal Growth and Design</i> , 2014 , 14, 4617-4623	3.5	5
509	Fabrication of nanograined silicon by high-pressure torsion. <i>Journal of Materials Science</i> , 2014 , 49, 6565-6569	4.5	26
508	Left-right organizer flow dynamics: how much cilia activity reliably yields laterality?. <i>Developmental Cell</i> , 2014 , 29, 716-28	10.2	63
507	Improvisation and Entrepreneurial Bricolage versus Rationalisation: A case-based analysis of contrasting responses to economic instability in the UK brass musical instruments industry. <i>Journal of General Management</i> , 2014 , 40, 53-78	1.3	16
506	Linking, leveraging and learning: sectoral systems of innovation and technological catch-up in China's commercial aerospace industry. <i>Global Business and Economics Review</i> , 2014 , 16, 349	0.5	3
505	Atomic Scale Studies of Structure and Bonding in AlPSi ₃ Alloys Grown Lattice-matched on Si(001). <i>Microscopy and Microanalysis</i> , 2014 , 20, 524-525	0.5	1
504	Using structural disorder to enhance the magnetism and spin-polarization in Fe _x Si _{1-x} thin films for spintronics. <i>Materials Research Express</i> , 2014 , 1, 026102	1.7	10
503	Improving the Spatial Resolution of Atomic-Scale EDS Mapping for Chemical Imaging and Quantification of Metallic Alloy Structures. <i>Microscopy and Microanalysis</i> , 2014 , 20, 130-131	0.5	
502	A Chemical Route to Monolithic Integration of Crystalline Oxides on Semiconductors. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400081	4.6	38

501	Epitaxial growth: Phenomenological model of defect creation 2014 ,		1
500	Band alignment of a HfO ₂ -VO ₂ -HfO ₂ confined well structure on silicon. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2014 , 32, 011203	1.3	5
499	Epitaxy of polar semiconductor Co ₃ O ₄ (110): Growth, structure, and characterization. <i>Journal of Applied Physics</i> , 2014 , 115, 243708	2.5	19
498	Atomic and electronic structure of the ferroelectric BaTiO ₃ /Ge(001) interface. <i>Applied Physics Letters</i> , 2014 , 104, 242908	3.4	40
497	Microstructure of Ti/Al/Ni/Au ohmic contacts for N-polar GaN/AlGa _N high electron mobility transistor devices. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2014 , 32, 011201	1.3	5
496	Determination of polarization-fields across polytype interfaces in InAs nanopillars. <i>Advanced Materials</i> , 2014 , 26, 1052-7	24	26
495	Microscopic Investigation of Mono-layer/Multi-layer self-assembled InAs QDs on GaAs _{1-x} Sb _x /GaAs Composite Substrates for Photovoltaic Solar Cells. <i>Microscopy and Microanalysis</i> , 2014 , 20, 554-555	0.5	
494	Ultrathin-barrier AlN/GaN heterostructures grown by rf plasma-assisted molecular beam epitaxy on freestanding GaN substrates. <i>Journal of Crystal Growth</i> , 2013 , 380, 14-17	1.6	19
493	Structure and morphology of polar and semi-polar pyramidal surfaces coating wurtzite ZnO micro-wires. <i>Journal of Materials Science</i> , 2013 , 48, 3857-3862	4.3	10
492	Study of InAs/InAsSb type-II superlattices using high-resolution x-ray diffraction and cross-sectional electron microscopy. <i>Journal of Crystal Growth</i> , 2013 , 381, 1-5	1.6	9
491	TEM Characterization of HgCdTe/CdTe Grown on GaAs(211)B Substrates. <i>Journal of Electronic Materials</i> , 2013 , 42, 3142-3147	1.9	7
490	Power-by-the-hour: the role of technology in reshaping business strategy at Rolls-Royce. <i>Technology Analysis and Strategic Management</i> , 2013 , 25, 987-1007	3.2	89
489	Physics of rheologically enhanced propulsion: Different strokes in generalized Stokes. <i>Physics of Fluids</i> , 2013 , 25, 081903	4.4	58
488	Impact of substrate temperature on the structural and optical properties of strain-balanced InAs/InAsSb type-II superlattices grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2013 , 102, 071903	3.4	11
487	. <i>IEEE Transactions on Device and Materials Reliability</i> , 2013 , 13, 126-135	1.6	24
486	Calculations of flow-induced orientation distributions for analysis of linear dichroism spectroscopy. <i>Soft Matter</i> , 2013 , 9, 4977	3.6	14
485	Oxygen vacancy-mediated room-temperature ferromagnetism in insulating cobalt-substituted SrTiO ₃ epitaxially integrated with silicon. <i>Physical Review B</i> , 2013 , 87,	3.3	22
484	Reliability studies of AlGa _N /Ga _N high electron mobility transistors. <i>Semiconductor Science and Technology</i> , 2013 , 28, 074019	1.8	34

483	Epitaxial strontium titanate films grown by atomic layer deposition on SrTiO ₃ -buffered Si(001) substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013 , 31, 01A136	2.9	38
482	Rational design of monocrystalline (InP) _y Ge(5-2y)/Ge/Si(100) semiconductors: synthesis and optical properties. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12388-99	16.4	4
481	Atomic-Scale Characterization of III-VI Compound Semiconductors. <i>Journal of Electronic Materials</i> , 2013 , 42, 3168-3174	1.9	7
480	Guided VLS growth of epitaxial lateral Si nanowires. <i>Nano Letters</i> , 2013 , 13, 3878-83	11.5	21
479	A calibration method for group V fluxes and impact of V/III flux ratio on the growth of InAs/InAsSb type-II superlattices by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2013 , 378, 145-149	1.6	9
478	Development of AlGaIn-based graded-index-separate-confinement-heterostructure deep UV emitters by molecular beam epitaxy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013 , 31, 03C117	1.3	30
477	Exploring aberration-corrected electron microscopy for compound semiconductors. <i>Microscopy (Oxford, England)</i> , 2013 , 62 Suppl 1, S65-73	1.3	12
476	Molecular beam epitaxial growth of high-reflectivity and broad-bandwidth ZnTe/GaSb distributed Bragg reflectors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013 , 31, 03C109	1.3	3
475	Band Gap-Engineered Group-IV Optoelectronic Semiconductors, Photodiodes and Prototype Photovoltaic Devices. <i>ECS Journal of Solid State Science and Technology</i> , 2013 , 2, Q172-Q177	2	11
474	Reinventing artisanal knowledge and practice: a critical review of innovation in a craft-based industry. <i>Prometheus</i> , 2013 , 31, 55-73	0	17
473	Mapping electrostatic profiles across axial p-n junctions in Si nanowires using off-axis electron holography. <i>Applied Physics Letters</i> , 2013 , 103, 153108	3.4	16
472	Measurement and effects of polarization fields on one-monolayer-thick InN/GaN multiple quantum wells. <i>Physical Review B</i> , 2013 , 88,	3.3	24
471	Epitaxial Zintl aluminide SrAl ₄ grown on a LaAlO ₃ substrate. <i>Physical Review B</i> , 2013 , 88,	3.3	3
470	Beyond the golden triangle—Biotechnology incubation in the East Midlands region of the UK. <i>Local Economy</i> , 2013 , 28, 66-84	1.2	3
469	Atomic-scale characterization of (mostly zincblende) compound semiconductor heterostructures. <i>Journal of Physics: Conference Series</i> , 2013 , 471, 012005	0.3	3
468	Atomic configurations at InAs partial dislocation cores associated with Z-shape faulted dipoles. <i>Scientific Reports</i> , 2013 , 3, 3229	4.9	12
467	Progress and problems for atomic-resolution electron microscopy. <i>Micron</i> , 2012 , 43, 504-508	2.3	12
466	Polarization-induced charge distribution at homogeneous zincblende/wurtzite heterostructural junctions in ZnSe nanobelts. <i>Advanced Materials</i> , 2012 , 24, 1328-32	24	27

465	Symmetry breaking cilia-driven flow in the zebrafish embryo. <i>Journal of Fluid Mechanics</i> , 2012 , 705, 26-45.7	20
464	Measurement of polarization-induced electric fields in GaN/AlInN quantum wells. <i>Applied Physics Letters</i> , 2012 , 101, 251902	3.4 8
463	InAs/InAsSb Type-II superlattice: a promising material for mid-wavelength and long-wavelength infrared applications 2012 ,	2
462	Band alignment of zinc oxide as a channel layer in a gate stack structure grown by plasma enhanced atomic layer deposition. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 051807	1.3 8
461	Homoepitaxial N-polar GaN layers and HEMT structures grown by rf-plasma assisted molecular beam epitaxy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 02B113	1.3 14
460	193 nm excimer laser lift-off for AlGaIn/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 051209	1.3 3
459	Comparison of microstructure of N-polar GaN/AlGaIn/GaN heterostructures grown on different substrates. <i>Journal of Crystal Growth</i> , 2012 , 357, 25-29	1.6 2
458	Modelling the fluid mechanics of cilia and flagella in reproduction and development. <i>European Physical Journal E</i> , 2012 , 35, 111	1.5 34
457	MBE-Grown ZnTe/Si, a Low-Cost Composite Substrate. <i>Journal of Electronic Materials</i> , 2012 , 41, 2917-2924	8
456	Microstructural Characterization of HgCdSe Grown by Molecular Beam Epitaxy on ZnTe/Si(112) and GaSb(112) Substrates. <i>Journal of Electronic Materials</i> , 2012 , 41, 2852-2856	1.9 6
455	Molecular synthesis of high-performance near-IR photodetectors with independently tunable structural and optical properties based on Si-Ge-Sn. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20756-67	16.4 29
454	Characterization of Bi ₂ Te ₃ and Bi ₂ Se ₃ topological insulators grown by MBE on (001) GaAs substrates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 02B103	1.3 30
453	Sequential tunneling transport in GaN/AlGaIn quantum cascade structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 588-591	3
452	Covalently bonded three-dimensional carbon nanotube solids via boron induced nanojunctions. <i>Scientific Reports</i> , 2012 , 2, 363	4.9 300
451	Controlled growth behavior of chemical vapor deposited Ni nanostructures. <i>Philosophical Magazine</i> , 2012 , 92, 2173-2186	1.6 10
450	Structural properties of InAs/InAs _{1-x} Sb _x type-II superlattices grown by molecular beam epitaxy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 02B106	1.3 9
449	Influence of temperature ramp on the materials properties of GaSb grown on ZnTe using molecular beam epitaxy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 02B122	1.3 4
448	Strain-balanced InAs/InAs _{1-x} Sb _x type-II superlattices grown by molecular beam epitaxy on GaSb substrates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 02B107	1.3 26

447	Transmission electron microscopy characterization of electrically stressed AlGaIn/GaN high electron mobility transistor devices. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 062204	1.3	12
446	Sub-250 nm room-temperature optical gain from AlGaIn/AlN multiple quantum wells with strong band-structure potential fluctuations. <i>Applied Physics Letters</i> , 2012 , 100, 061111	3.4	48
445	Band alignment of vanadium oxide as an interlayer in a hafnium oxide-silicon gate stack structure. <i>Journal of Applied Physics</i> , 2012 , 112, 084105	2.5	7
444	Low temperature growth of high-k HfO ₂ oxides by remote-plasma atomic layer deposition: Morphology, stoichiometry, and dielectric properties. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012 , 30, 01A147	2.9	4
443	CdSe/CdTe type-II superlattices grown on GaSb (001) substrates by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2012 , 100, 121908	3.4	4
442	InGaIn/GaN multiple-quantum-well light-emitting diodes grown on Si(111) substrates with ZrB ₂ (0001) buffer layers. <i>Journal of Applied Physics</i> , 2012 , 111, 033107	2.5	23
441	Human spermatozoa migration in microchannels reveals boundary-following navigation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8007-10	11.5	193
440	The innovation performance of small rural enterprises and cooperatives in Tehran province, Iran. <i>Local Economy</i> , 2012 , 27, 183-192	1.2	3
439	Growth of epitaxial oxides on silicon using atomic layer deposition: Crystallization and annealing of TiO ₂ on SrTiO ₃ -buffered Si(001). <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 04E111	1.3	19
438	High Technology and Economic Development: The BioCity Nottingham Technology Incubator. <i>International Journal of Entrepreneurship and Innovation</i> , 2012 , 13, 301-309	1.5	4
437	Structural properties of InAs/InAs 1-x Sb x type-II superlattices 2012 ,		2
436	Technological discontinuities, outsiders and social capital: a case study from Formula 1. <i>European Journal of Innovation Management</i> , 2012 , 15, 332-350	4.2	4
435	Negative tunneling magnetoresistance by canted magnetization in MgO/NiO tunnel barriers. <i>Physical Review Letters</i> , 2011 , 106, 167201	7.4	25
434	Viscosity of aqueous DNA solutions determined using dynamic light scattering. <i>Analyst, The</i> , 2011 , 136, 4159-63	5	15
433	. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1677-1679	4.4	26
432	Nanosynthesis routes to new tetrahedral crystalline solids: silicon-like Si ₃ AlP. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16212-8	16.4	26
431	Synthesis and Materials Properties of Sn/P-Doped Ge on Si(100): Photoluminescence and Prototype Devices. <i>Chemistry of Materials</i> , 2011 , 23, 4480-4486	9.6	13
430	Microstructural characterization of thick ZnTe epilayers grown on GaSb, InAs, InP and GaAs (1 0 0) substrates. <i>Journal of Crystal Growth</i> , 2011 , 330, 30-34	1.6	17

429	Electric Field Driven Degradation of AlGaIn/GaN High Electron Mobility Transistors during Off-State Stress. <i>ECS Transactions</i> , 2011 , 41, 89-100	1	
428	Endotaxial silicide nanowires: A review. <i>Thin Solid Films</i> , 2011 , 519, 8434-8440	2.2	49
427	Influence of Substrate Temperature and Post-Deposition Annealing on Material Properties of Ga-Doped ZnO Prepared by Pulsed Laser Deposition. <i>Journal of Electronic Materials</i> , 2011 , 40, 419-428	1.9	8
426	Microstructural Characterization of CdTe(211)B/ZnTe/Si(211) Heterostructures Grown by Molecular Beam Epitaxy. <i>Journal of Electronic Materials</i> , 2011 , 40, 1733-1737	1.9	8
425	Study of uniformity of high performance AlInN HEMT with ultra-thin barrier. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 2081-2085		
424	Inhibiting copper(I) iodide aggregate assembly in the solid state via macrocyclic encapsulation. <i>Dalton Transactions</i> , 2011 , 40, 12257-64	4.3	4
423	Electric-Field-Driven Degradation in off-State Step-Stressed AlGaIn/GaN High-Electron Mobility Transistors. <i>IEEE Transactions on Device and Materials Reliability</i> , 2011 , 11, 187-193	1.6	33
422	Observation of hole accumulation in Ge/Si core/shell nanowires using off-axis electron holography. <i>Nano Letters</i> , 2011 , 11, 493-7	11.5	43
421	Epitaxial lateral overgrowth of non-polar GaN(11 00) on Si(112) patterned substrates by MOCVD. <i>Journal of Crystal Growth</i> , 2011 , 314, 129-135	1.6	18
420	In situ observations of endotaxial growth of CoSi ₂ nanowires on Si(110) using ultrahigh vacuum transmission electron microscopy. <i>Nanotechnology</i> , 2011 , 22, 305606	3.4	5
419	Sperm motility: is viscosity fundamental to progress?. <i>Molecular Human Reproduction</i> , 2011 , 17, 539-44	4.4	71
418	Effect of source field plate on the characteristics of off-state, step-stressed AlGaIn/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 032204	1.3	23
417	Conduction electron scattering and spin-flipping at sputtered Al/Cu Interfaces. <i>Journal of Applied Physics</i> , 2011 , 109, 053903	2.5	2
416	Shape transition and migration of TiSi ₂ nanostructures embedded in a Si matrix. <i>Journal of Applied Physics</i> , 2011 , 110, 094304	2.5	1
415	Measurement of electric field across individual wurtzite GaN quantum dots using electron holography. <i>Applied Physics Letters</i> , 2011 , 99, 101905	3.4	16
414	Urine steroid metabolomics as a biomarker tool for detecting malignancy in adrenal tumors. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011 , 96, 3775-84	5.6	293
413	Proton irradiation effects on AlN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, L47-L51	1.3	16
412	Observation of dodecagon-shape V-defects in GaN/AlInN multiple quantum wells. <i>Applied Physics Letters</i> , 2010 , 97, 161902	3.4	12

411	Quantitative dopant profiling of p-n junction in InGaAs/AlGaAs light-emitting diode using off-axis electron holography. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C1D11-C1D14	1.3	4
410	Phase-shifting electron holography for atomic image reconstruction. <i>Journal of Electron Microscopy</i> , 2010 , 59 Suppl 1, S81-8		7
409	Effects of vortex chirality and shape anisotropy on magnetization reversal of Co nanorings (invited). <i>Journal of Applied Physics</i> , 2010 , 107, 09D307	2.5	22
408	Chemical vapor deposition synthesis of N-, P-, and Si-doped single-walled carbon nanotubes. <i>ACS Nano</i> , 2010 , 4, 1696-702	16.7	101
407	Ti/Al/Ni/Au Ohmic contacts for AlInN/AlN/GaN-based heterojunction field-effect transistors. <i>Journal of Applied Physics</i> , 2010 , 107, 014508	2.5	26
406	TiAlNiAu contacts for ultrathin AlN/GaN high electron mobility transistor structures. <i>Journal of Applied Physics</i> , 2010 , 108, 084513	2.5	3
405	Sequential tunneling transport characteristics of GaN/AlGaIn coupled-quantum-well structures. <i>Journal of Applied Physics</i> , 2010 , 108, 103704	2.5	22
404	Simulation of polarization charge on AlGaIn/GaN high electron mobility transistors: Comparison to electron holography. <i>Journal of Applied Physics</i> , 2010 , 107, 054516	2.5	15
403	Distinct local electronic structure and magnetism for Mn in amorphous Si and Ge. <i>Physical Review B</i> , 2010 , 82,	3.3	26
402	Intersubband device applications of nitride quantum structures 2010 ,		1
401	Growth kinetics of AlN and GaN films grown by molecular beam epitaxy on R-plane sapphire substrates. <i>Journal of Applied Physics</i> , 2010 , 108, 043501	2.5	10
400	Oriented growth of single-crystal Ni nanowires onto amorphous SiO ₂ . <i>Nano Letters</i> , 2010 , 10, 5070-5	11.5	43
399	Microstructural Characterization of CdTe Surface Passivation Layers. <i>Journal of Electronic Materials</i> , 2010 , 39, 924-929	1.9	
398	Applications of TEM imaging, analysis and electron holography to III-nitride HEMT devices. <i>Microelectronics Reliability</i> , 2010 , 50, 1514-1519	1.2	9
397	Quantitative phase imaging of nanoscale electrostatic and magnetic fields using off-axis electron holography. <i>Ultramicroscopy</i> , 2010 , 110, 375-382	3.1	42
396	Progress & perspectives for atomic-resolution electron microscopy. <i>Materials Today</i> , 2010 , 12, 10-16	21.8	4
395	Microstructure and field mapping of AlInN-based heterostructures and devices. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2436-2439		4
394	Optical and structural characterization of GaN/AlGaIn quantum wells for intersubband device applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2394-2397		3

393	Effect of microstructure on magnetic properties and anisotropy distributions in Co/Pd thin films and nanostructures. <i>Physical Review B</i> , 2009 , 80,	3.3	41
392	Annealing of CoFeB/MgO based single and double barrier magnetic tunnel junctions: Tunnel magnetoresistance, bias dependence, and output voltage. <i>Journal of Applied Physics</i> , 2009 , 105, 033916	2.5	47
391	Deep ultraviolet emitting AlGaIn quantum wells with high internal quantum efficiency. <i>Applied Physics Letters</i> , 2009 , 94, 181907	3.4	118
390	Optically pumped intersubband emission of short-wave infrared radiation with GaN/AlN quantum wells. <i>Applied Physics Letters</i> , 2009 , 94, 081120	3.4	31
389	Off-axis electron holographic potential mapping across AlGaAs/AlAs/GaAs heterostructures. <i>Journal of Applied Physics</i> , 2009 , 105, 014910	2.5	6
388	Remanent states and magnetization reversal of nanopatterned spin-valve elements using off-axis electron holography. <i>Journal of Applied Physics</i> , 2009 , 105, 07D517	2.5	4
387	Vortex Formation During Magnetization Reversal of Co Slotted Nanorings. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 3885-3888	2	4
386	Quantitative Analysis of Dopant Distribution and Activation Across p-n Junctions in AlGaAs/GaAs Light-Emitting Diodes Using Off-Axis Electron Holography. <i>IEEE Transactions on Electron Devices</i> , 2009 , 56, 1919-1923	2.9	6
385	The Role of Sulfur in the Synthesis of Novel Carbon Morphologies: From Covalent Y-Junctions to Sea-Urchin-Like Structures. <i>Advanced Functional Materials</i> , 2009 , 19, 1193-1199	15.6	44
384	Atomic structure of the m-plane AlN/SiC interface. <i>Journal of Crystal Growth</i> , 2009 , 311, 1456-1459	1.6	5
383	High-resolution imaging of 1:1 [0001] ordered a-plane Al _{0.3} Ga _{0.7} N. <i>Journal of Crystal Growth</i> , 2009 , 311, 4162-4166	1.6	2
382	Observation of asymmetrical pinning of domain walls in notched Permalloy nanowires using electron holography. <i>Applied Physics Letters</i> , 2009 , 95, 182507	3.4	18
381	Ex-MWNTs: graphene sheets and ribbons produced by lithium intercalation and exfoliation of carbon nanotubes. <i>Nano Letters</i> , 2009 , 9, 1527-33	11.5	326
380	Polarization field mapping of Al _{0.85} In _{0.15} N/AlN/GaN heterostructure. <i>Applied Physics Letters</i> , 2009 , 94, 121909	3.4	26
379	Financial bootstrapping and social capital: how technology-based start-ups fund innovation. <i>International Journal of Entrepreneurship and Innovation Management</i> , 2009 , 10, 199	0.4	12
378	Direct visualization of three-step magnetization reversal of nanopatterned spin-valve elements using off-axis electron holography. <i>Applied Physics Letters</i> , 2009 , 94, 172503	3.4	15
377	Quenched magnetic moment in Mn-doped amorphous Si films. <i>Physical Review B</i> , 2008 , 77,	3.3	37
376	Bulk production of a new form of sp ² carbon: crystalline graphene nanoribbons. <i>Nano Letters</i> , 2008 , 8, 2773-8	11.5	524

375	Production and detailed characterization of bean husk-based carbon: efficient cadmium (II) removal from aqueous solutions. <i>Water Research</i> , 2008 , 42, 3473-9	12.5	15
374	Development of aberration-corrected electron microscopy. <i>Microscopy and Microanalysis</i> , 2008 , 14, 2-15	0.5	53
373	Fabrication of spherical particles with mixed amorphous/crystalline nanostructured cores and insulating oxide shells. <i>Journal of Materials Research</i> , 2008 , 23, 1758-1763	2.5	9
372	In situ electron holographic analysis of biased Si n+-p junctions. <i>Applied Physics Letters</i> , 2008 , 92, 143502	3.4	13
371	Assessment of surface damage and sidewall implantation in AlGaIn-based high electron mobility transistor devices caused during focused-ion-beam milling. <i>Journal of Applied Physics</i> , 2008 , 104, 094304	2.5	10
370	Large electro-optic effect in single-crystal Pb(Zr,Ti)O ₃ (001) measured by spectroscopic ellipsometry. <i>Journal of Applied Physics</i> , 2008 , 104, 093103	2.5	16
369	Introduction: materials research in an aberration-free environment. <i>Microscopy and Microanalysis</i> , 2008 , 14, 1	0.5	7
368	Oxidation behavior of In ₉₅ Sn ₅ solid solution. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 1670		
367	Structural Evolution During Formation and Filling of Self-patterned Nanoholes on GaAs (100) Surfaces. <i>Nanoscale Research Letters</i> , 2008 , 3, 530-3	5	5
366	Ultimate resolution in the electron microscope?. <i>Materials Today</i> , 2008 , 11, 30-38	21.8	128
365	Growth of III-nitride quantum dots and their applications to blue-green LEDs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 2560-2565	1.6	25
364	An atomistic branching mechanism for carbon nanotubes: sulfur as the triggering agent. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2948-53	16.4	69
363	Structural characterization of non-polar (1 1 2 0) and semi-polar (1 1 2 6) GaN films grown on r-plane sapphire. <i>Journal of Crystal Growth</i> , 2008 , 310, 2981-2986	1.6	19
362	Progress and perspectives for atomic-resolution electron microscopy. <i>Ultramicroscopy</i> , 2008 , 108, 159-66	1	17
361	Heterodoped nanotubes: theory, synthesis, and characterization of phosphorus-nitrogen doped multiwalled carbon nanotubes. <i>ACS Nano</i> , 2008 , 2, 441-8	16.7	165
360	Evidence of modified ferromagnetism at a buried Permalloy/CoO interface at room temperature. <i>Physical Review B</i> , 2007 , 75,	3.3	25
359	Microstructural characterization of dispersion-strengthened CuTiAl alloys obtained by reaction milling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 454-455, 183-193	5.3	12
358	Microwave performance and structural characterization of MBE-grown AlGaIn/GaN HEMTs on low dislocation density GaN substrates. <i>Journal of Crystal Growth</i> , 2007 , 305, 340-345	1.6	19

357	Microstructure of interfacial HgTe/CdTe superlattice layers for growth of HgCdTe on CdZnTe (211)B substrates. <i>Journal of Crystal Growth</i> , 2007 , 309, 153-157	1.6	8
356	Electron microscopy investigation of spark-eroded Ni ₄₀ Mn ₆₀ Ga ferromagnetic shape-memory alloy particles. <i>Scripta Materialia</i> , 2007 , 56, 593-596	5.6	13
355	Real-time x-ray studies of gallium nitride nanodot formation by droplet heteroepitaxy. <i>Journal of Applied Physics</i> , 2007 , 102, 073522	2.5	18
354	GaN quantum dot superlattices grown by molecular beam epitaxy at high temperature. <i>Journal of Applied Physics</i> , 2007 , 102, 073517	2.5	19
353	Concentration dependent microstructure and transport properties of the magnetic semiconductor Gd-Si. <i>Journal of Applied Physics</i> , 2007 , 101, 093712	2.5	6
352	Effects of annealing on amorphous GdxSi _{1-x} near the metal-insulator transition. <i>Journal of Applied Physics</i> , 2007 , 101, 023908	2.5	4
351	Structural and electrical properties of Pb(Zr,Ti)O ₃ films grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2007 , 91, 182906	3.4	18
350	Observation of vertical honeycomb structure in InAlN/GaN heterostructures due to lateral phase separation. <i>Applied Physics Letters</i> , 2007 , 90, 081917	3.4	58
349	Effect of shape on magnetic response for slotted Co nanorings. <i>Journal of Applied Physics</i> , 2007 , 102, 023911	2.5	10
348	Magnetic and transport properties of amorphous GdxGe _{1-x} alloys near the metal-insulator transition. <i>Physical Review B</i> , 2007 , 76,	3.3	6
347	Optimized thickness of superconducting aluminum electrodes for measurement of spin polarization with MgO tunnel barriers. <i>Applied Physics Letters</i> , 2007 , 90, 202502	3.4	9
346	Sign of tunneling magnetoresistance in CrO ₂ -based magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2007 , 91, 252506	3.4	25
345	Growth and microstructure dependence of electronic and magnetic properties in magnetically doped Gd-Si amorphous semiconductors. <i>Physical Review B</i> , 2007 , 75,	3.3	6
344	Correlation of microstructure and magnetic properties for exchange-biased Co ferromagnets grown above and below the diluted antiferromagnet Co(Mg)O. <i>Journal of Applied Physics</i> , 2007 , 102, 123904	2.5	2
343	Intersubband absorption in AlN/GaN/AlGaIn coupled quantum wells. <i>Applied Physics Letters</i> , 2007 , 91, 141104	3.4	34
342	Determination of the inelastic mean-free-path and mean inner potential for AlAs and GaAs using off-axis electron holography and convergent beam electron diffraction. <i>Microscopy and Microanalysis</i> , 2007 , 13, 329-35	0.5	21
341	Epitaxial lateral overgrowth of (112̄) semipolar GaN on (1100) m-plane sapphire by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2007 , 90, 182109	3.4	74
340	Microstructure, magnetotransport, and magnetic properties of Gd-doped amorphous carbon. <i>Physical Review B</i> , 2007 , 75,	3.3	11

339	Nitrogen-mediated carbon nanotube growth: diameter reduction, metallicity, bundle dispersability, and bamboo-like structure formation. <i>ACS Nano</i> , 2007 , 1, 369-75	16.7	185
338	Electron Holography: Phase Imaging with Nanometer Resolution. <i>Annual Review of Materials Research</i> , 2007 , 37, 729-767	12.8	152
337	Reconstruction technique for off-axis electron holography using coarse fringes. <i>Ultramicroscopy</i> , 2006 , 106, 486-91	3.1	16
336	Epitaxial growth of CdTe on (211) silicon mesas formed by deep reactive ion etching. <i>Journal of Electronic Materials</i> , 2006 , 35, 1636-1640	1.9	3
335	Investigation of HgCdTe p-n device structures grown by liquid-phase epitaxy. <i>Journal of Electronic Materials</i> , 2006 , 35, 1192-1196	1.9	4
334	Nanoscale Structural and Magnetic Characterization Using Electron Microscopy 2006 , 119-145		
333	Internally shunted Josephson junctions with barriers tuned near the metal-insulator transition for RSFQ logic applications. <i>Superconductor Science and Technology</i> , 2006 , 19, 719-731	3.1	16
332	Excess modes and enhanced scattering in rare-earth-doped amorphous silicon thin films. <i>Physical Review B</i> , 2006 , 74,	3.3	5
331	Enhanced internal quantum efficiency and light extraction efficiency from textured GaN/AlGaIn quantum wells grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2006 , 99, 064904	2.5	18
330	Magnetic iron silicide nanowires on Si(110). <i>Applied Physics Letters</i> , 2006 , 88, 113111	3.4	66
329	Enhancing exchange bias with diluted antiferromagnets. <i>Physical Review Letters</i> , 2006 , 96, 117204	7.4	75
328	Dislocation reduction in GaN grown on porous TiN networks by metal-organic vapor-phase epitaxy. <i>Journal of Applied Physics</i> , 2006 , 99, 033518	2.5	19
327	Microstructure of relaxed InN quantum dots grown on GaN buffer layers by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2006 , 88, 231906	3.4	15
326	Understanding ion-milling damage in Hg _{1-x} Cd _x Te epilayers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 995-1000	2.9	31
325	One-step production of optimized Fe ₃ O ₄ particles by spark erosion. <i>Applied Physics Letters</i> , 2006 , 89, 142506	3.4	14
324	Effect of Al ₂ O ₃ flux ratio during nucleation layer growth on the microstructure of GaN films grown by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2006 , 88, 011916	3.4	6
323	In situ pendeoepitaxy of GaN using heteroepitaxial AlGaIn/GaN cracks. <i>Applied Physics Letters</i> , 2006 , 89, 024103	3.4	2
322	Complex and incommensurate ordering in Al _{0.72} Ga _{0.28} N thin films grown by plasma-assisted molecular beam epitaxy. <i>Applied Physics Letters</i> , 2006 , 88, 181915	3.4	34

321	Switching mechanisms and remanent states for nanoscale slotted Co circular elements studied by electron holography. <i>Physical Review B</i> , 2006 , 73,	3.3	16
320	Cluster Dynamics: Corporate Strategy, Industry Evolution and Technology Trajectories - A Case Study of the East Midlands Aerospace Cluster. <i>Local Economy</i> , 2006 , 21, 362-377	1.2	13
319	Efficient anchoring of silver nanoparticles on N-doped carbon nanotubes. <i>Small</i> , 2006 , 2, 346-50	11	138
318	Interface properties of an AlN/(AlN) _x (SiC) _{1-x} /4H-SiC heterostructure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 3720-3725	1.6	7
317	Atomic Resolution Transmission Electron Microscopy of the Microstructure of Ordered Ba(Cd _{1/3} Ta _{2/3})O ₃ Perovskite Ceramics. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1047-1052	3.8	9
316	Decorating carbon nanotubes with nanostructured nickel particles via chemical methods. <i>Chemical Physics Letters</i> , 2006 , 431, 104-109	2.5	37
315	Application of equal-channel angular pressing to Cu ₆₀ Co alloy with ferromagnetic precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 417, 149-157	5.3	14
314	Remanent states of nanoscale Co ferromagnets having different shapes. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 303, 237-242	2.8	11
313	Phase transformation in FeSi ₂ nanowires. <i>Journal of Crystal Growth</i> , 2006 , 295, 166-171	1.6	23
312	Improve molecular beam epitaxy growth of HgCdTe on CdZnTe (211)B substrates using interfacial layers of HgTe/CdTe superlattices. <i>Journal of Applied Physics</i> , 2006 , 100, 114316	2.5	15
311	Epitaxial DySi ₂ nanowire formation on stepped Si(111). <i>Applied Physics Letters</i> , 2005 , 86, 143110	3.4	25
310	Magnetic domain configurations in spark-eroded ferromagnetic shape memory Ni-Mn-Ga particles. <i>Applied Physics Letters</i> , 2005 , 86, 192503	3.4	31
309	Study of in situ magnetization reversal processes for nanoscale Co rings using off-axis electron holography. <i>Journal of Applied Physics</i> , 2005 , 97, 054305	2.5	19
308	Growth and characterization of plasma-assisted molecular beam epitaxial-grown AlGa _{0.5} N/GaN heterostructures on free-standing hydride vapor phase epitaxy GaN substrates. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 1190		11
307	Performance and reproducibility enhancement of HgCdTe molecular beam epitaxy growth on CdZnTe substrates using interfacial HgTe/CdTe superlattice layers. <i>Applied Physics Letters</i> , 2005 , 86, 131924	3.4	24
306	Characterization of Al(Cr)N and Ga(Cr)N dilute magnetic semiconductors. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 1395-1397	2.8	72
305	Switching behavior of nanoscale Co ferromagnetic elements using off-axis electron holography. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 234-237	2.8	7
304	Electron microscopy studies of epitaxial MgB ₂ superconducting thin films grown by in situ reactive evaporation. <i>Journal of Crystal Growth</i> , 2005 , 280, 602-611	1.6	10

303	Growth and characterization of Si _{1-x} Mnx alloys on Si(100). <i>Journal of Applied Physics</i> , 2005 , 98, 033512	2.5	24
302	Talented suppliers? Strategic change and innovation in the UK aerospace industry. <i>R and D Management</i> , 2005 , 35, 37-49	4.1	55
301	Correlation of electronic and structural properties of MBE-grown AlGa _{1-x} N/GaN heterostructures to Al/N flux ratio during nucleation layer growth. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 2212-2215		2
300	Molecular beam epitaxy of InAlN/GaN heterostructures for high electron mobility transistors. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 1204		34
299	Kinetic control of Ge(Si) _{1-x} Bi(100) dome cluster composition. <i>Applied Physics Letters</i> , 2005 , 87, 223101	3.4	11
298	Establishing exchange bias below TN with polycrystalline Ni _{0.52} Co _{0.48} O bilayers. <i>Physical Review B</i> , 2005 , 72,	3.3	13
297	Effectiveness of TiN porous templates on the reduction of threading dislocations in GaN overgrowth by organometallic vapor-phase epitaxy. <i>Applied Physics Letters</i> , 2005 , 86, 043108	3.4	52
296	The role of Cr substitution on the ferromagnetic properties of Ga _{1-x} Cr _x N. <i>Applied Physics Letters</i> , 2005 , 86, 012504	3.4	35
295	Structural characterization of base/collector interfaces for magnetic tunnel transistors grown on Si(001). <i>Journal of Applied Physics</i> , 2005 , 97, 104514	2.5	3
294	Beneficial effects of annealing on amorphous NbBi thin-film thermometers. <i>Applied Physics Letters</i> , 2005 , 87, 221901	3.4	16
293	Atomic-scale imaging of asymmetric Lomer dislocation cores at the Ge/Si(001) heterointerface. <i>Applied Physics Letters</i> , 2004 , 84, 2530-2532	3.4	26
292	Observation of ferromagnetism above 900K in Cr _{1-x} GaN and Cr _{1-x} AlN. <i>Applied Physics Letters</i> , 2004 , 85, 4076-4078	3.4	182
291	Ordered domains and boundary structure in Ba(Cd _{1/3} Ta _{2/3})O ₃ perovskite dielectrics. <i>Applied Physics Letters</i> , 2004 , 84, 3918-3920	3.4	14
290	Electrical, microstructural, and thermal stability characteristics of Ta/Ti/Ni/Au contacts to n-GaN. <i>Journal of Applied Physics</i> , 2004 , 95, 1516-1524	2.5	15
289	Endotaxial silicide nanowires. <i>Physical Review Letters</i> , 2004 , 93, 256102	7.4	111
288	Determination of In concentration in pseudomorphic In _x Ga _{1-x} N quantum wells based on convergent-beam electron diffraction. <i>Applied Physics Letters</i> , 2004 , 84, 490-492	3.4	3
287	Faulted surface layers in dysprosium silicide nanowires. <i>Physical Review B</i> , 2004 , 70,	3.3	21
286	Efficient p-type doping of GaN films by plasma-assisted molecular beam epitaxy. <i>Applied Physics Letters</i> , 2004 , 85, 4956-4958	3.4	45

285	EELS near-edge structure in the Laves-phase compounds TiCr ₂ and TiCo ₂ : Theoretical and experimental studies. <i>Physical Review B</i> , 2004 , 69,	3.3	7
284	Low-threshold continuous-wave operation of quantum-cascade lasers grown by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , 2004 , 85, 5842-5844	3.4	32
283	Microstructure and dielectric properties of Ba(Cd _{1/3} Ta _{2/3})O ₃ microwave ceramics synthesized with a boron oxide sintering aid. <i>Journal of Materials Research</i> , 2004 , 19, 3526-3533	2.5	11
282	Electron microscopy characterization of Ba(Cd _{1/3} Ta _{2/3})O ₃ microwave dielectrics with boron additive. <i>Journal of Materials Research</i> , 2004 , 19, 1387-1391	2.5	6
281	Use of Pd and Pt buffers to induce soft magnetic properties in Fe ₇₀ Co ₃₀ thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 269, 212-216	2.8	13
280	Homoepitaxial growth of (0 0 0 1)- and (0001)-oriented ZnO thin films via metalorganic vapor-phase epitaxy and their characterization. <i>Journal of Crystal Growth</i> , 2004 , 265, 390-398	1.6	32
279	Growth and characterization of ZnO thin films on GaN epilayers. <i>Journal of Electronic Materials</i> , 2004 , 33, 826-832	1.9	7
278	Nitrogen activated bowing parameter of GaAs _{1-x} N _x (x?1%) obtained from photoreflectance spectra. <i>Solid-State Electronics</i> , 2004 , 48, 291-296	1.7	5
277	Defect characterization for epitaxial HgCdTe alloys by electron microscopy. <i>Journal of Crystal Growth</i> , 2004 , 265, 224-234	1.6	39
276	Thermochemical analysis of MgB ₂ synthesis by molecular-beam epitaxy. <i>Journal of Crystal Growth</i> , 2004 , 270, 107-112	1.6	14
275	Microstructural characterization of HgTe/HgCdTe superlattices. <i>Journal of Crystal Growth</i> , 2004 , 271, 29-36	1.6	8
274	Nanopillar growth mode by vapor-liquid-solid epitaxy. <i>Applied Physics Letters</i> , 2004 , 84, 5302-5304	3.4	12
273	Effect of AlN ratio during nucleation layer growth on Hall mobility and buffer leakage of molecular-beam epitaxy grown AlGaIn/GaN heterostructures. <i>Applied Physics Letters</i> , 2004 , 85, 3786-3788 ^{3,4}	3.4	21
272	Hollow metallic microspheres produced by spark erosion. <i>Applied Physics Letters</i> , 2004 , 85, 940-942	3.4	37
271	Microstructural characterization of Ni-Mn-Ga ferromagnetic shape memory alloy powders. <i>Journal of Applied Physics</i> , 2004 , 95, 6954-6956	2.5	20
270	Mapping In concentration, strain, and internal electric field in InGaIn/GaN quantum well structure. <i>Applied Physics Letters</i> , 2004 , 84, 2103-2105	3.4	44
269	Technology Strategy and Innovation: The Use of Derivative Strategies in the Aerospace Industry. <i>Technology Analysis and Strategic Management</i> , 2004 , 16, 509-527	3.2	9
268	Vapor-liquid-solid growth of germanium nanostructures on silicon. <i>Journal of Applied Physics</i> , 2004 , 96, 7556-7567	2.5	85

267	Introduction: An International Workshop in Honor of Regents' Professor John Maxwell Cowley on the Occasion of His 80th Birthday. <i>Microscopy and Microanalysis</i> , 2004 , 10, 1-3	0.5	15
266	Ordered Structures in Ba(Cd _{1/3} Ta _{2/3})O ₃ Microwave Ceramics: A Transmission Electron Microscopy Study. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 783, 5121		
265	Far-infrared detector based on HgTe/HgCdTe superlattices. <i>Journal of Electronic Materials</i> , 2003 , 32, 608-614	1.9	25
264	Electron microscopy of surface-crater defects on HgCdTe/CdZnTe(211)B epilayers grown by molecular-beam epitaxy. <i>Journal of Electronic Materials</i> , 2003 , 32, 703-709	1.9	23
263	Microstructural evolution of Ge/Si(1 0 0) nanoscale islands. <i>Journal of Crystal Growth</i> , 2003 , 259, 232-244	1.6	33
262	Tunable band structure in diamond-cubic tin-germanium alloys grown on silicon substrates. <i>Solid State Communications</i> , 2003 , 127, 355-359	1.6	48
261	Epitaxial titanium silicide islands and nanowires. <i>Surface Science</i> , 2003 , 524, 148-156	1.8	45
260	Semiconductor dopant profiling by off-axis electron holography. <i>Ultramicroscopy</i> , 2003 , 94, 149-61	3.1	33
259	Nanometer-scale composition measurements of Ge/Si(100) islands. <i>Applied Physics Letters</i> , 2003 , 82, 1473-1475	3.4	74
258	Mercury cadmium telluride/tellurium intergrowths in HgCdTe epilayers grown by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2003 , 82, 2275-2277	3.4	27
257	Dysprosium silicide nanowires on Si(110). <i>Applied Physics Letters</i> , 2003 , 83, 5292-5294	3.4	51
256	SnGe superstructure materials for Si-based infrared optoelectronics. <i>Applied Physics Letters</i> , 2003 , 83, 3489-3491	3.4	36
255	Synthesis, characterization, and modeling of high quality ferromagnetic Cr-doped AlN thin films. <i>Applied Physics Letters</i> , 2003 , 82, 3047-3049	3.4	159
254	Nitrogen-activated bowing of dilute In _y Ga _{1-y} As _{1-x} N _x based on photoreflectance studies. <i>Journal of Applied Physics</i> , 2003 , 94, 7576	2.5	4
253	Influence of interface alloying on the magnetic properties of Co/Pd multilayers. <i>Applied Physics Letters</i> , 2003 , 83, 5259-5261	3.4	39
252	Structure and orientation of epitaxial titanium silicide nanowires determined by electron microdiffraction. <i>Journal of Applied Physics</i> , 2003 , 93, 5670-5674	2.5	35
251	New magnetic order in buried native iron oxide layers. <i>Physical Review Letters</i> , 2003 , 91, 267201	7.4	23
250	Finite size effects on the moment and ordering temperature in antiferromagnetic CoO layers. <i>Physical Review B</i> , 2003 , 67,	3.3	83

249	Formation mechanism of crater defects on HgCdTe/CdZnTe (211) B epilayers grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2003 , 83, 4785-4787	3.4	26
248	Structural and magnetic properties of CoCrPt perpendicular media grown on different buffer layers. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 247, 153-158	2.8	14
247	Quantitative analysis of one-dimensional dopant profile by electron holography. <i>Applied Physics Letters</i> , 2002 , 80, 3213-3215	3.4	71
246	Spontaneous chemical ordering and exchange bias in epitaxial Mn _{0.52} Pd _{0.48} /Fe(001) bilayers prepared at room temperature. <i>Applied Physics Letters</i> , 2002 , 80, 808-810	3.4	13
245	Mapping of electrostatic potential in deep submicron CMOS devices by electron holography. <i>Physical Review Letters</i> , 2002 , 89, 025502	7.4	89
244	Do ballistic channels contribute to the magnetoresistance in magnetic tunnel junctions?. <i>Applied Physics Letters</i> , 2002 , 80, 285-287	3.4	8
243	Electrical, structural and microstructural characteristics of as-deposited and annealed Pt and Au contacts on chemical-vapor-cleaned GaN thin films. <i>Journal of Applied Physics</i> , 2002 , 91, 2133-2137	2.5	10
242	Properties of the native oxide in metal/native oxide multilayers (invited). <i>Journal of Applied Physics</i> , 2002 , 91, 7526	2.5	4
241	Growth of Fe/Ge(001) heterostructures by molecular beam epitaxy: Interface structure, electronic and magnetic properties. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002 , 20, 1586		10
240	Morphological and optical properties of Si nanostructures imbedded in SiO ₂ and Si ₃ N ₄ films grown by single source chemical vapor deposition. <i>Journal of Applied Physics</i> , 2002 , 92, 7475-7480	2.5	16
239	Evolution of Ge/Si(100) island morphology at high temperature. <i>Applied Physics Letters</i> , 2002 , 80, 3623-3625	3.4	27
238	In situ studies of the role of excess Ga on the growth morphology of thin GaN layers. <i>Surface Science</i> , 2002 , 496, 160-178	1.8	15
237	Ge _{1-x} N _x semiconductors for band-gap and lattice engineering. <i>Applied Physics Letters</i> , 2002 , 81, 2992-2994	3.4	217
236	Structural properties of heteroepitaxial germanium-carbon alloys grown on Si (100). <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001 , 81, 1613-1624		3
235	The formation of ordered, ultrathin SiO ₂ /Si(100) interfaces grown on (111) Si(100). <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 87, 303-316	3.1	26
234	4. Electron holography and its application to magnetic materials. <i>Experimental Methods in the Physical Sciences</i> , 2001 , 111-XIII	0.4	2
233	Grain boundary structure in AlMg and AlMg ₂ C alloys after equal-channel angular pressing. <i>Journal of Materials Research</i> , 2001 , 16, 583-589	2.5	60
232	Surfactant-mediated growth and characterization of Ge(211)/Si(211) heterostructures grown by molecular beam epitaxy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001 , 19, 1562		3

231	GaAs-substrate-based long-wave active materials with type-II band alignments. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001 , 19, 1501		14
230	Magnetically soft, high-moment, high-resistivity thin films using discontinuous metal/native oxide multilayers. <i>Applied Physics Letters</i> , 2001 , 79, 224-226	3.4	32
229	Simple chemical routes to diamond-cubic germanium _{1-x} Sn alloys. <i>Applied Physics Letters</i> , 2001 , 78, 3607-3609	3.4	42
228	Evolution of self-assembled Ge/Si(211) islands. <i>Applied Physics Letters</i> , 2001 , 79, 4518-4520	3.4	4
227	Off-axis electron holography of exchange-biased CoFe/FeMn patterned nanostructures. <i>Journal of Applied Physics</i> , 2001 , 90, 2899-2902	2.5	19
226	Fabrication and characterization of C implantation standards for Si _{1-x} GexCy alloys. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 2879	2.9	1
225	Low-temperature growth of SiCAlN films of high hardness on Si(111) substrates. <i>Applied Physics Letters</i> , 2001 , 79, 2880-2882	3.4	15
224	Step Bunching, Chemical Ordering, and Diffusivity in Si _{1-x} Cy Heteroepitaxy. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 618, 65		
223	Growth and characterization of CdTe/Si heterostructures [Effect of substrate orientation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000 , 77, 93-100	3.1	36
222	Magnetic correlations in non-percolated CoBiO ₂ granular films. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 221, 1-9	2.8	66
221	Electron Crystallography of Room Temperature Charge Ordering in Fe(3)O(4). <i>Microscopy and Microanalysis</i> , 2000 , 6, 400-402	0.5	1
220	Enhanced blocking temperature in NiO spin valves: Role of cubic spinel ferrite layer between pinned layer and NiO. <i>Applied Physics Letters</i> , 2000 , 77, 1191-1193	3.4	8
219	Substitutional C fraction and the influence of C on Si dimer diffusion in Si _{1-x} Cy alloys grown on (001) and (118) Si. <i>Applied Physics Letters</i> , 2000 , 77, 1310-1312	3.4	5
218	III-N semiconductor growth with activated nitrogen: State-specific study of A ₃ ⁺ metastable N ₂ molecules. <i>Applied Physics Letters</i> , 2000 , 77, 3030-3032	3.4	8
217	Defect annihilation in AlN thin films by ultrahigh temperature processing. <i>Applied Physics Letters</i> , 2000 , 76, 1839-1841	3.4	29
216	Spin-dependent transport of CoBiO ₂ granular films approaching percolation. <i>Physical Review B</i> , 2000 , 62, 14273-14278	3.3	90
215	Polarity determination and atomic arrangements at a GaN/SiC interface using high-resolution image matching. <i>Applied Physics Letters</i> , 2000 , 76, 822-824	3.4	27
214	Evolution of Ge/Si(100) islands: Island size and temperature dependence. <i>Journal of Applied Physics</i> , 2000 , 87, 2245-2254	2.5	143

213	Correlation of coercivity and microstructure of thin CoFe films. <i>Journal of Applied Physics</i> , 2000 , 88, 2058-2062	2.5	63
212	Interlayer coupling within individual submicron magnetic elements. <i>Journal of Applied Physics</i> , 2000 , 87, 7400-7404	2.5	25
211	Fabrication and thermal stability of a nanocrystalline NiAlCr alloy: Comparison with pure Cu and Ni. <i>Journal of Materials Research</i> , 1999 , 14, 4200-4207	2.5	43
210	Inversion of surface composition and evolution of nanostructure in Cu/Co nanocrystals. <i>Applied Physics Letters</i> , 1999 , 74, 3161-3163	3.4	16
209	Morphological control and structural characteristics of crystalline Ge ₂ S ₃ systems: Carbide nanorods, quantum dots, and epitaxial heterostructures. <i>Applied Physics Letters</i> , 1999 , 74, 958-960	3.4	13
208	Magnetic tunnel junctions thermally stable to above 300 °C. <i>Applied Physics Letters</i> , 1999 , 75, 543-545	3.4	46
207	Influence of 6H-SiC(0001) substrate surface morphology on the growth of AlN epitaxial layers. <i>Applied Physics Letters</i> , 1999 , 74, 985-987	3.4	34
206	Development of a low-temperature GaN chemical vapor deposition process based on a single molecular source H ₂ GaN ₃ . <i>Applied Physics Letters</i> , 1999 , 74, 883-885	3.4	35
205	Long wavelength (1.3 and 1.5 μ m) photoluminescence from InGaAs/GaPAsSb quantum wells grown on GaAs. <i>Applied Physics Letters</i> , 1999 , 75, 1267-1269	3.4	28
204	Strain-Driven Alloying in Ge/Si(100) Coherent Islands. <i>Physical Review Letters</i> , 1999 , 83, 1199-1202	7.4	163
203	Evidence for charge ordering at room temperature in Fe ₃ O ₄ . <i>Physical Review B</i> , 1999 , 59, R11633-R11636	3.4	13
202	Determination of mean inner potential of germanium using off-axis electron holography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1999 , 55, 652-658		32
201	Surfactant-mediated growth of Ge/Si(0 0 1) studied by Raman spectroscopy and TEM. <i>Journal of Crystal Growth</i> , 1999 , 201-202, 538-541	1.6	10
200	CdTe(111)B grown on Si(111) by molecular beam epitaxy. <i>Applied Physics Letters</i> , 1999 , 74, 2346-2348	3.4	23
199	Homoepitaxial GaN Layers Studied by Low-Energy Electron Microscopy, Atomic Force Microscopy and Transmission Electron Microscopy. <i>Physica Status Solidi A</i> , 1999 , 176, 469-473		3
198	Origin of magnetization decay in spin-dependent tunnel junctions. <i>Science</i> , 1999 , 286, 1337-40	33.3	50
197	Increasing the exchange-bias field of Ni _{0.5} Co _{0.5} O films by microstructural control. <i>Applied Physics Letters</i> , 1999 , 74, 1314-1316	3.4	19
196	Switching asymmetries in closely coupled magnetic nanostructure arrays. <i>Applied Physics Letters</i> , 1999 , 75, 2641-2643	3.4	58

195	Microstructural and micromagnetic characterization of thin film magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 1999 , 85, 4815-4817	2.5	14
194	MBE Growth and Ultrahigh Temperature Processing of High-Quality AlN Films. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 587, 07.12.1		
193	Microstructural and optical characterization of CdTe(211)B/ZnTe/Si(211) grown by molecular beam epitaxy. <i>Journal of Electronic Materials</i> , 1998 , 27, 1047-1052	1.9	25
192	Towards quantitative electron holography of magnetic thin films using in situ magnetization reversal. <i>Ultramicroscopy</i> , 1998 , 74, 61-73	3.1	85
191	Ordered Structures in Unstrained, Epitaxial GeSiC Films. <i>Chemistry of Materials</i> , 1998 , 10, 1396-1401	9.6	6
190	Structural characterization of thin film ferromagnetic tunnel junctions. <i>Journal of Applied Physics</i> , 1998 , 83, 5154-5158	2.5	30
189	Synthesis and Atomic and Electronic Structure of New SiGe Alloys and Compounds. <i>Chemistry of Materials</i> , 1998 , 10, 2935-2949	9.6	23
188	Formation of a Tetrameric, Cyclooctane-like, Azidochlorogallane, [HClGaN ₃] ₄ , and Related Azidogallanes. Exothermic Single-Source Precursors to GaN Nanostructures. <i>Journal of the American Chemical Society</i> , 1998 , 120, 5233-5237	16.4	73
187	Microstructure and optical properties of epitaxial GaN on ZnO (0001) grown by reactive molecular beam epitaxy. <i>Journal of Applied Physics</i> , 1998 , 83, 983-990	2.5	90
186	Magnetic interactions within patterned cobalt nanostructures using off-axis electron holography. <i>Journal of Applied Physics</i> , 1998 , 84, 374-378	2.5	85
185	Observations of grain boundary structure in submicrometer-grained Cu and Ni using high-resolution electron microscopy. <i>Journal of Materials Research</i> , 1998 , 13, 446-450	2.5	138
184	Surface plasmons and breakdown in thin silicon dioxide films on silicon. <i>Journal of Applied Physics</i> , 1998 , 84, 1430-1438	2.5	14
183	Application of chemically enhanced vapour etching in the fabrication on nanostructures. <i>Semiconductor Science and Technology</i> , 1998 , 13, A63-A66	1.8	
182	Magnetic anisotropy and microstructure in molecular beam epitaxial FePt (110)/MgO (110). <i>Journal of Applied Physics</i> , 1998 , 84, 934-939	2.5	66
181	Strategies for the synthesis of highly concentrated Si _{1-x} Cy diamond-structured systems. <i>Applied Physics Letters</i> , 1998 , 72, 2117-2119	3.4	10
180	Growth and characterization of thin Si ₈₀ C ₂₀ films based upon Si ₄ C building blocks. <i>Applied Physics Letters</i> , 1998 , 72, 930-932	3.4	15
179	Spin-dependent tunneling in discontinuous Co ₅ SiO ₂ magnetic tunnel junctions. <i>Applied Physics Letters</i> , 1998 , 73, 535-537	3.4	38
178	Wet oxidation of amorphous Si _{0.67} Ge _{0.25} C _{0.08} grown on (100) Si substrates. <i>Journal of Applied Physics</i> , 1998 , 83, 2835-2841	2.5	5

177	Effect of ammonia flow rate on impurity incorporation and material properties of Si-doped GaN epitaxial films grown by reactive molecular beam epitaxy. <i>Journal of Applied Physics</i> , 1998 , 84, 6680-6685	2.5	14
176	Microstructural study of Mg-doped p-type GaN: Correlation between high-resolution electron microscopy and Raman spectroscopy. <i>Journal of Applied Physics</i> , 1997 , 82, 6008-6011	2.5	15
175	Crystalline-to-amorphous transition in chemical vapor deposition of pseudomorphic Si _{1-x} GexCy films. <i>Applied Physics Letters</i> , 1997 , 71, 1634-1636	3.4	9
174	Growth and structural characterization of highly oriented sputter-deposited (111), (110), and (100) Co/Cu superlattices. <i>Applied Physics Letters</i> , 1997 , 71, 1480-1482	3.4	9
173	Optical properties of GaN grown on ZnO by reactive molecular beam epitaxy. <i>Applied Physics Letters</i> , 1997 , 70, 467-469	3.4	9 ¹
172	REFLECTION ELECTRON MICROSCOPY METHODOLOGY FOR QUANTIFICATION OF CLUSTER GROWTH: INDIUM CLUSTERS ON THE InP(110) SURFACE. <i>Surface Review and Letters</i> , 1997 , 04, 655-669	1.1	4
171	High quality large-area CdTe(211)B on Si(211) grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 1997 , 71, 1810-1812	3.4	6 ³
170	Growth of AlN and GaN on 6H-SiC(0001) using a helium supersonic beam seeded with ammonia. <i>Applied Physics Letters</i> , 1997 , 71, 1365-1367	3.4	18
169	Off-axis electron holography of epitaxial FePt films. <i>Journal of Applied Physics</i> , 1997 , 82, 2461-2465	2.5	44
168	The realization of atomic resolution with the electron microscope. <i>Reports on Progress in Physics</i> , 1997 , 60, 1513-1580	14.4	8 ¹
167	Control of composition and crystallinity in the molecular beam epitaxy of strain-compensated Si _{1-x} GexCy alloys on Si. <i>Journal of Crystal Growth</i> , 1997 , 175-176, 486-492	1.6	8
166	Materials characterization of Si _{1-x} GexCy/Si superlattice structures. <i>Thin Solid Films</i> , 1997 , 308-309, 358-362	2.2	4
165	X-ray diffraction and high resolution transmission electron microscopy of 3C-SiC/AlN/6H-SiC(0001). <i>Journal of Electronic Materials</i> , 1997 , 26, 1389-1393	1.9	7
164	Molecular beam epitaxial growth of ZnSe on GaAs substrates: influence of precursors on interface quality. <i>Journal of Crystal Growth</i> , 1997 , 175-176, 613-618	1.6	3
163	Reflectivity difference spectroscopy study of thin film ZnSe grown on GaAs by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 1997 , 175-176, 328-333	1.6	5
162	Chemical Synthesis of Metastable Germanium-Carbon Alloys Grown Heteroepitaxially on (100) Si. <i>Chemistry of Materials</i> , 1996 , 8, 2491-2498	9.6	10
161	HREM study of 45°[100]quasiperiodic grain boundary in aluminum. <i>Scripta Materialia</i> , 1996 , 35, 327-331	5.6	3
160	An investigation of grain boundaries in submicrometer-grained Al-Mg solid solution alloys using high-resolution electron microscopy. <i>Journal of Materials Research</i> , 1996 , 11, 1880-1890	2.5	29 ¹

159	Structural properties of GaN films grown on sapphire by molecular beam epitaxy. <i>Applied Physics Letters</i> , 1996 , 68, 1141-1143	3.4	50
158	Growth and characterization of heteroepitaxial CdTe and ZnTe on Ge(001) buffer layers. <i>Applied Physics Letters</i> , 1996 , 69, 2086-2088	3.4	8
157	Growth of high quality CdTe on Si substrates by molecular beam epitaxy. <i>Journal of Electronic Materials</i> , 1996 , 25, 1402-1405	1.9	29
156	Evolution of grain boundary structure in submicrometer-grained Al-Mg alloy. <i>Materials Characterization</i> , 1996 , 37, 285-294	3.9	28
155	Heteroepitaxial CdTe(111) grown by MBE on nominally flat and misoriented Si(001) substrates: characterization by electron microscopy and optical methods. <i>Journal of Crystal Growth</i> , 1996 , 159, 58-63	1.6	12
154	Optical characterization of ZnMnSSe quaternary alloys for visible light emitting devices. <i>Journal of Crystal Growth</i> , 1996 , 159, 50-53	1.6	4
153	on GaAs grown by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 1996 , 159, 94-98	1.6	15
152	Low temperature inorganic chemical vapor deposition of heteroepitaxial GaN. <i>Applied Physics Letters</i> , 1996 , 69, 203-205	3.4	27
151	The effect of carbon on strain relaxation and phase formation in the Ti/Si _{1-x} Ge _x /Si contact system. <i>Applied Physics Letters</i> , 1996 , 69, 64-66	3.4	29
150	Strain measurements of SiGeC heteroepitaxial layers on Si(001) using ion beam analysis. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996 , 14, 441-446	2.9	10
149	Synthesis and characterization of heteroepitaxial diamond-structured Ge _{1-x} C _x (x=1.5B.0%) alloys using chemical vapor deposition. <i>Applied Physics Letters</i> , 1996 , 68, 2407-2409	3.4	43
148	Measurement of lattice-fringe vectors from digital HREM images: experimental precision. <i>Ultramicroscopy</i> , 1995 , 57, 409-422	3.1	41
147	Characterization of Group III-nitride semiconductors by high-resolution electron microscopy. <i>Journal of Crystal Growth</i> , 1995 , 152, 135-142	1.6	55
146	High-resolution scanning electron microscopy for the characterization of supported metal catalysts. <i>Catalysis Letters</i> , 1995 , 31, 57-64	2.8	9
145	Microstructural and chemical characterization of the inconel/ti(n) thin film and multilayer system. <i>Journal of X-Ray Science and Technology</i> , 1995 , 5, 121-58	2.1	
144	Characterization of structural defects in wurtzite GaN grown on 6H SiC using plasma-enhanced molecular beam epitaxy. <i>Applied Physics Letters</i> , 1995 , 67, 1830-1832	3.4	77
143	Growth and characterization of pseudomorphic single crystal zinc blende MnS. <i>Applied Physics Letters</i> , 1995 , 67, 2690-2692	3.4	57
142	Microstructure of heteroepitaxial CdTe grown on misoriented Si(001) substrates. <i>Applied Physics Letters</i> , 1995 , 67, 1591-1593	3.4	54

141	Dynamic processes at InP(110) surfaces studied by UHV reflection electron microscopy. <i>Surface Science</i> , 1995 , 340, 141-152	1.8	4
140	Novel Synthetic Routes to Carbon Nitride. <i>Chemistry of Materials</i> , 1995 , 7, 1422-1426	9.6	54
139	Formation of threading defects in GaN wurtzite films grown on nonisomorphic substrates. <i>Applied Physics Letters</i> , 1995 , 67, 2063-2065	3.4	138
138	Growth of heteroepitaxial Si _{1-x} Ge _x Cy alloys on silicon using novel deposition chemistry. <i>Applied Physics Letters</i> , 1995 , 67, 1247-1249	3.4	23
137	Chemical vapor deposition of heteroepitaxial Si _{1-x} Ge _x Cy films on (100)Si substrates. <i>Applied Physics Letters</i> , 1994 , 65, 2559-2561	3.4	78
136	Novel chemical routes to silicon-germanium-carbon materials. <i>Applied Physics Letters</i> , 1994 , 65, 2960-2962	3.4	31
135	Direct observation of potential distribution across Si/Si p-n junctions using off-axis electron holography. <i>Applied Physics Letters</i> , 1994 , 65, 2603-2605	3.4	114
134	Characterization of WC _x /B ₄ C multilayers sputtered in reactive argon/methane atmospheres. <i>Thin Solid Films</i> , 1994 , 239, 57-70	2.2	8
133	Microstructural characterization of Co/Cu multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 129, 415-422	2.8	17
132	High resolution imaging of magnetic multilayers. <i>Scripta Metallurgica Et Materialia</i> , 1994 , 30, 689-694		6
131	Dependence of giant magnetoresistance on grain size in Co/Cu multilayers. <i>Physical Review B</i> , 1994 , 50, 4232-4235	3.3	32
130	Electron microscopy study of Ni/Ni ₃ Al diffusion-couple interface[] Microstructural observation and microchemical analysis. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 3381-3387		40
129	Reflection electron microscopy studies of GaP(110) surfaces in UHV-TEM. <i>Surface Science</i> , 1993 , 287-288, 1062-1066	1.8	2
128	Dependence of giant magnetoresistance on Cu-layer thickness in Co/Cu multilayers: A simple dilution effect. <i>Physical Review B</i> , 1993 , 47, 9136-9139	3.3	42
127	Characterization of WC _x /B ₄ C multilayers sputtered in argon/methane atmospheres 1993 , 1742, 354		1
126	Comparative study of supported catalyst particles by electron microscopy methods. <i>Ultramicroscopy</i> , 1993 , 52, 282-288	3.1	13
125	Progress towards quantitative high-resolution electron microscopy. <i>Ultramicroscopy</i> , 1993 , 52, 591-601	3.1	15
124	Accurate measurements of mean inner potential of crystal wedges using digital electron holograms. <i>Ultramicroscopy</i> , 1993 , 50, 285-299	3.1	137

123	Applications of electron holography to the study of interfaces. <i>Ultramicroscopy</i> , 1993 , 50, 301-311	3.1	32
122	Development and applications of a 300 keV ultrahigh-vacuum high-resolution electron microscope. <i>Ultramicroscopy</i> , 1993 , 49, 26-36	3.1	11
121	Structural properties of InN films grown on GaAs substrates: observation of the zincblende polytype. <i>Journal of Crystal Growth</i> , 1993 , 127, 204-208	1.6	97
120	HREM study of structure of supported Pt catalysts. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993 , 26, 79-81		3
119	Electron microscopy at 1-Å resolution by entropy maximization and likelihood ranking. <i>Nature</i> , 1992 , 355, 605-609	50.4	85
118	Imaging x-ray multilayer structures using cross-sectional high resolution electron microscopy. <i>Journal of Applied Physics</i> , 1992 , 72, 5165-5171	2.5	12
117	The Study of Heterogeneous Catalysts by High-Resolution Transmission Electron Microscopy. <i>Catalysis Reviews - Science and Engineering</i> , 1992 , 34, 129-178	12.6	109
116	Morphology of silicon grain boundaries in Sr-modified Al-Si eutectic alloys by HREM. <i>Ultramicroscopy</i> , 1992 , 40, 265-270	3.1	3
115	Transmission electron microscopy observations of magnetic multilayers. <i>Ultramicroscopy</i> , 1992 , 47, 375-382		12
114	Recent studies of thin films and surfaces by high-Resolution electron microscopy. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1992 , 23, 1063-1070		
113	Electron-beam-induced reactions at transition-metal oxide surfaces. <i>Vacuum</i> , 1991 , 42, 301-308	3.7	56
112	Characterization of thin films, interfaces and surfaces by high-resolution electron microscopy. <i>Ultramicroscopy</i> , 1991 , 37, 169-179	3.1	8
111	A transmission and high-resolution electron microscope study of cozonally twinned growth of eutectic silicon in unmodified Al-Si alloys. <i>Journal of Crystal Growth</i> , 1991 , 112, 635-643	1.6	10
110	Giant magnetoresistance in antiferromagnetic Co/Cu multilayers. <i>Applied Physics Letters</i> , 1991 , 58, 2710-2712	3.4	534
109	Raman scattering by interface phonons in GaAs-AlAs multiple-quantum-well structures: Correlation between Raman and high-resolution electron microscopy results. <i>Journal of Applied Physics</i> , 1991 , 70, 418-421	2.5	12
108	Investigations of microstructure of thin TbFeCo films by high-resolution electron microscopy. <i>Journal of Applied Physics</i> , 1991 , 69, 6590-6594	2.5	9
107	Direct imaging of CdTe(001) surface reconstructions by high-resolution electron microscopy. <i>Surface Science</i> , 1991 , 254, 119-124	1.8	29
106	Electron-beam-induced surface reactions in Pd/PdO films. <i>Surface Science</i> , 1991 , 250, 90-98	1.8	6

105	Studies of electron irradiation and annealing effects on TiO ₂ surfaces in ultrahigh vacuum using high-resolution electron microscopy. <i>Surface Science</i> , 1991 , 250, 169-178	1.8	45
104	Investigations of Rh-based multilayers for soft x-ray applications by high-resolution electron microscopy. <i>Journal of Applied Physics</i> , 1991 , 70, 2905-2910	2.5	4
103	Investigations of microstructure of thin TbFeCo films by high-resolution electron microscopy (abstract). <i>Journal of Applied Physics</i> , 1990 , 67, 5954-5954	2.5	1
102	Characterization of surface structure in heterogeneous catalysts by high-resolution transmission electron microscopy. <i>Ultramicroscopy</i> , 1990 , 34, 47-53	3.1	14
101	Characterization of filamentous carbon on Ni/MgO catalysts by high-resolution electron microscopy. <i>Ultramicroscopy</i> , 1990 , 34, 54-59	3.1	9
100	Dissociated 60° dislocations in CdTe studied by high-resolution electron microscopy. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1990 , 62, 435-450		16
99	Atomic structure of a tilt grain boundary in aluminum by HREM. <i>Scripta Metallurgica Et Materialia</i> , 1990 , 24, 1611-1615		5
98	Observation of exit surface sputtering in TiO ₂ using biased secondary electron imaging. <i>Surface Science</i> , 1990 , 237, 232-240	1.8	29
97	Observations of nanocrystals in thin TbFeCo films. <i>Applied Physics Letters</i> , 1989 , 55, 919-921	3.4	44
96	Reversibility of strong metal-support interactions on Rh/TiO ₂ . <i>Journal of Catalysis</i> , 1989 , 118, 227-237	7.3	90
95	Achievement of atomic resolution electron microscopy. <i>Journal of Electron Microscopy Technique</i> , 1989 , 12, 11-23		7
94	A Joint Structural Characterization of Colloidal Platinum by EXAFS and High-Resolution Electron Microscopy. <i>Angewandte Chemie International Edition in English</i> , 1989 , 28, 590-593		31
93	The oxidation of small rhodium metal particles. <i>Ultramicroscopy</i> , 1989 , 31, 132-137	3.1	36
92	A systematic analysis of HREM imaging of Wurtzite semiconductors. <i>Ultramicroscopy</i> , 1989 , 27, 117-130	3.1	20
91	A systematic analysis of HREM imaging of sphalerite semiconductors. <i>Ultramicroscopy</i> , 1989 , 27, 131-150	3.1	36
90	A theoretical analysis of HREM imaging for <110> tetrahedral semiconductors. <i>Ultramicroscopy</i> , 1989 , 27, 19-34	3.1	34
89	A systematic analysis of HREM imaging of elemental semiconductors. <i>Ultramicroscopy</i> , 1989 , 27, 35-51	3.1	26
88	Profile imaging of surfaces and surface reactions. <i>Ultramicroscopy</i> , 1989 , 29, 123-134	3.1	31

87	The structure of Bi ₁₅ Ti ₉ Fe ₁₁ O ₅₇ and related compounds derived by high-resolution electron microscopy. <i>Journal of Solid State Chemistry</i> , 1989 , 80, 178-188	3.3	5
86	Epitaxial relationships in electron-stimulated desorption processes at transition metal oxide surfaces. <i>Surface Science</i> , 1989 , 221, 214-232	1.8	32
85	Surface polarity determination in <110>-orientated compound semiconductors high-resolution electron microscopy. <i>Philosophical Magazine Letters</i> , 1989 , 59, 69-75	1	15
84	Identification of an electron-beam-induced reaction product in the praseodymium oxide system. <i>Journal of Microscopy</i> , 1989 , 153, 31-37	1.9	
83	Real-Time Atomic-Resolution Imaging of Polymorphic Changes in Ruthenium Clusters. <i>Angewandte Chemie International Edition in English</i> , 1988 , 27, 555-558		35
82	The observation of in situ and ex situ oxidation processes for ZnTe surfaces by high-resolution electron microscopy. <i>Physica Status Solidi A</i> , 1988 , 107, 681-691		23
81	Simulations for surface profile imaging. <i>Ultramicroscopy</i> , 1988 , 25, 265-277	3.1	7
80	The real-time growth of atom planes on Ru, Rh and Sn microcrystals observed at atomic resolution. <i>Journal of Crystal Growth</i> , 1988 , 89, 165-170	1.6	12
79	Direct observation of the surfaces of small metal crystallites: rhodium supported on titania. <i>Langmuir</i> , 1988 , 4, 827-830	4	98
78	Interface structures in beta-silicon carbide thin films. <i>Applied Physics Letters</i> , 1987 , 50, 203-205	3.4	80
77	Direct imaging of surface reconstructions on CdTe by high-resolution electron microscopy. <i>Physical Review Letters</i> , 1987 , 59, 2177-2179	7.4	31
76	Atomic structure of symmetric tilt grain boundaries in NiO. <i>Physical Review Letters</i> , 1987 , 59, 2887-2890	7.4	155
75	HREM, STEM, REM, SEM and STM. <i>Surface Science</i> , 1987 , 181, 235-249	1.8	25
74	High resolution electron microscopy of surfaces and surface reactions. <i>Surface and Interface Analysis</i> , 1987 , 10, 135-141	1.5	10
73	Electron irradiation effects in (Cs,Ba)-hollandites. <i>Journal of Solid State Chemistry</i> , 1987 , 69, 343-354	3.3	23
72	Identifying characteristics of the fibrous cesium titanate Cs ₂ Ti ₅ O ₁₁ . <i>Journal of Solid State Chemistry</i> , 1987 , 69, 360-368	3.3	6
71	On the growth of small crystals of Cd, Zn, Pt and Rh during electron microscope observations. <i>Journal of Crystal Growth</i> , 1987 , 80, 218-224	1.6	18
70	Atomic resolution electron microscopy of NiO grain boundaries. <i>Ultramicroscopy</i> , 1987 , 22, 57-70	3.1	62

69	Dynamic edge and surface processes in terbium oxide. <i>Ultramicroscopy</i> , 1987 , 22, 71-79	3.1	17
68	Surface facetting and polarity of alumina. <i>Ultramicroscopy</i> , 1987 , 23, 223-227	3.1	21
67	The electron-beam-induced reduction of transition metal oxide surfaces to metallic lower oxides. <i>Ultramicroscopy</i> , 1987 , 23, 299-303	3.1	80
66	In situ oxidation processes for In III-V compound semiconductors studied by high-resolution electron microscopy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1986 , 54, 837-850		22
65	High resolution electron microscopy of interfaces in chlorinated phthalocyanine molecular crystals. <i>Journal of Microscopy</i> , 1986 , 141, 3-9	1.9	6
64	Atomic-resolution study of structural rearrangements in small platinum crystals. <i>Ultramicroscopy</i> , 1986 , 20, 71-75	3.1	75
63	Radiation damage and structural studies: Halogenated phthalocyanines. <i>Ultramicroscopy</i> , 1986 , 19, 279-297		26
62	Electron beam stimulated nonthermal crystallization of CdS surface layers: Observations by real-time atomic-resolution electron microscopy. <i>Applied Physics Letters</i> , 1986 , 48, 1751-1753	3.4	14
61	Electron-beam-stimulated processes at CdS surfaces observed by real-time atomic-resolution electron microscopy. <i>Journal of Materials Research</i> , 1986 , 1, 560-563	2.5	3
60	Atomic imaging of oxide surfaces. <i>Surface Science</i> , 1986 , 175, 673-683	1.8	49
59	Atomic imaging of oxide surfaces. <i>Surface Science</i> , 1986 , 175, 684-692	1.8	24
58	Atomic imaging of surfaces by electron microscopy. <i>Surface Science</i> , 1986 , 178, 462-474	1.8	24
57	Atom hopping on small gold particles imaged by high-resolution electron microscopy. <i>Die Naturwissenschaften</i> , 1985 , 72, 539-541	2	34
56	Extended Defects in Deformed Rutile. <i>Physica Status Solidi A</i> , 1985 , 89, 559-570		2
55	Non-anomalous high-resolution imaging of crystalline materials. <i>Ultramicroscopy</i> , 1985 , 16, 19-31	3.1	47
54	Direct atomic imaging of solid surfaces. <i>Ultramicroscopy</i> , 1985 , 16, 101-113	3.1	80
53	Imaging of atomic clouds outside the surfaces of gold crystals by electron microscopy. <i>Nature</i> , 1985 , 317, 47-49	50.4	157
52	The determination of atomic positions in high-resolution electron micrographs. <i>Ultramicroscopy</i> , 1985 , 18, 39-47	3.1	57

51	Approaching atomic-resolution electron microscopy. <i>Ultramicroscopy</i> , 1985 , 18, 63-75	3.1	15
50	Metallisation of oxide surfaces observed by in situ high-resolution electron microscopy. <i>Ultramicroscopy</i> , 1985 , 17, 387-391	3.1	35
49	Microstructural investigations of tin-molybdenum oxides by high-resolution electron microscopy. <i>Journal of Solid State Chemistry</i> , 1985 , 58, 342-349	3.3	3
48	Small-defect clusters in chromia-doped rutiles. <i>Journal of Solid State Chemistry</i> , 1985 , 56, 203-210	3.3	9
47	Methods for the measurement of rigid-body displacements at edge-on boundaries using high-resolution electron microscopy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1985 , 50, 375-391		53
46	Direct atomic imaging of solid surfaces: IV. Dislocations on Au(100). <i>Surface Science</i> , 1985 , 157, L367-L372		19
45	Transmission electron microscopy and high resolution electron microscopy studies of shallow ($R_p \sim 20$ nm) As and B implanted and electron beam annealed silicon. <i>Applied Physics Letters</i> , 1984 , 44, 1081-1083	3.4	3
44	Characterization of Si-implanted and electron-beam-annealed silicon-on-sapphire using high-resolution electron microscopy. <i>Journal of Applied Physics</i> , 1984 , 56, 2207-2212	2.5	18
43	The measurement of boundary displacements in metals. <i>Ultramicroscopy</i> , 1984 , 14, 145-154	3.1	46
42	Emergence of small defect contrast within HREM images of nonstoichiometric rutile. <i>Ultramicroscopy</i> , 1984 , 13, 191-204	3.1	19
41	Oxidation of bismuth-tungsten bronzes. <i>Journal of Solid State Chemistry</i> , 1984 , 53, 101-112	3.3	4
40	Elastic strain at the solid-solid interface in intergrowth structures: A novel example of partial structure refinement by HREM. <i>Materials Research Bulletin</i> , 1984 , 19, 1403-1409	5.1	25
39	Interaction of small and extended defects in nonstoichiometric oxides. <i>Nature</i> , 1984 , 309, 319-321	50.4	39
38	A homologous series of recurrent intergrowth structures of the type $\text{Bi}_4\text{Am} + n \text{Bm} + n\text{O}_3(m+n) + 6$ formed by oxides of the aurivillius family. <i>Journal of Solid State Chemistry</i> , 1984 , 55, 101-105	3.3	51
37	Direct atomic imaging of solid surfaces. <i>Surface Science</i> , 1984 , 143, 495-508	1.8	61
36	Direct Observation of Elastic and Plastic Deformations at Au(111) Surfaces. <i>Physical Review Letters</i> , 1984 , 52, 656-658	7.4	60
35	Analysis of high-voltage, high-resolution images of lattice defects in experimentally-deformed dolomite. <i>Physics and Chemistry of Minerals</i> , 1983 , 9, 102-108	1.6	9
34	The importance of beam alignment and crystal tilt in high resolution electron microscopy. <i>Ultramicroscopy</i> , 1983 , 11, 263-281	3.1	161

33	The hollandite-related structure of Ba ₂ Ti ₉ O ₂₀ . <i>Journal of Solid State Chemistry</i> , 1983 , 47, 151-163	3.3	29
32	Supercell ordering in a hollandite-type phase: Potassium magnesium antimony oxide. <i>Journal of Solid State Chemistry</i> , 1983 , 46, 373-381	3.3	19
31	High resolution electron microscopic study of tin dioxide crystals. <i>Journal of Solid State Chemistry</i> , 1983 , 50, 51-69	3.3	16
30	Point, linear and extended defect structures in nonstoichiometric rutile. <i>Radiation Effects</i> , 1983 , 74, 253-265		23
29	A high-resolution electron microscopic study of defects in sodium β -alumina. <i>Journal of Microscopy</i> , 1983 , 130, 203-214	1.9	5
28	An investigation of order/disorder in a chromia-doped rutile by high-resolution electron microscopy. <i>Journal of Microscopy</i> , 1983 , 129, 263-273	1.9	13
27	Recent improvements to the Cambridge University 600 kV High Resolution Electron Microscope. <i>Journal of Microscopy</i> , 1983 , 130, 127-136	1.9	29
26	The application of high resolution electron microscopy to the study of oxidation. <i>Journal of Microscopy</i> , 1983 , 130, 137-146	1.9	14
25	Intergrowths and defect structures in Bi ₉ Ti ₃ Fe ₅ O ₂₇ revealed by high-resolution electron microscopy. <i>Journal of Microscopy</i> , 1983 , 129, 285-293	1.9	4
24	Procedures for focusing, stigmating and alignment in high resolution electron microscopy. <i>Journal of Microscopy</i> , 1983 , 130, 187-201	1.9	65
23	The high resolution electron microscopy of stacking defects in Cu ₂ NiAl shape memory alloy. <i>Journal of Microscopy</i> , 1983 , 129, 295-306	1.9	45
22	HREM and STEM of defects in multiply-twinned particles. <i>Journal of Microscopy</i> , 1983 , 130, 249-261	1.9	76
21	Direct surface imaging in small metal particles. <i>Nature</i> , 1983 , 303, 316-317	50.4	227
20	High-resolution images of bent crystals having rutile-type structures: Tin dioxide. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1982 , 45, 771-789		12
19	Investigations of the tin-antimony-oxygen system by high-resolution electron microscopy. <i>Journal of Solid State Chemistry</i> , 1982 , 44, 326-336	3.3	17
18	Optimisation and applications of the Cambridge University 600 kV high resolution electron microscope. <i>Ultramicroscopy</i> , 1982 , 9, 203-213	3.1	48
17	Dynamic observation of defect annealing in CdTe at lattice resolution. <i>Nature</i> , 1982 , 298, 127-131	50.4	52
16	Atomic Resolution with the Electron Microscope. <i>Interdisciplinary Science Reviews</i> , 1981 , 6, 155-165	0.7	12

15	High resolution studies of small particles of gold and silver. <i>Journal of Crystal Growth</i> , 1981 , 54, 433-438	1.6	82
14	High-voltage, high-resolution lattice images of dolomite. <i>Nature</i> , 1981 , 290, 389-390	50.4	8
13	Molecular detail in electron micrographs of quaterrylene C ₄₀ H ₂₀ . <i>Nature</i> , 1981 , 291, 481-482	50.4	16
12	High resolution studies of small particles of gold and silver. <i>Journal of Crystal Growth</i> , 1981 , 54, 425-432	1.6	160
11	Direct lattice imaging of small metal particles. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1981 , 44, 735-740		35
10	Ultra-high-resolution electron microscopy of amorphous materials at 120 kV. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1981 , 43, 907-923		27
9	The observation of amorphous materials at high voltage and high resolution. <i>Journal of Microscopy</i> , 1980 , 119, 19-28	1.9	7
8	Investigations of the structure of amorphous and partially crystalline metallic alloys by high resolution electron microscopy. <i>Journal of Microscopy</i> , 1980 , 119, 63-72	1.9	24
7	Observations on the structure of amorphous arsenic by high resolution electron microscopy. <i>Journal of Microscopy</i> , 1980 , 119, 29-37	1.9	4
6	Atomic resolution with a 600-kV electron microscope. <i>Nature</i> , 1979 , 281, 49-51	50.4	43
5	High resolution imaging of amorphous materials. <i>Nature</i> , 1979 , 281, 54-55	50.4	22
4	Direct observation of the structure of a metallic alloy glass. <i>Nature</i> , 1979 , 281, 465-467	50.4	42
3	Observations of silicon carbide by high resolution transmission electron microscopy. <i>Journal of Microscopy</i> , 1978 , 114, 1-18	1.9	37
2	Aperture contrast in thick amorphous specimens using scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 1975 , 1, 127-36	3.1	21
1	Motile curved bacteria are Pareto-optimal		1