List of Publications by Year in descending order

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FLISARETH MÃ1/11ED

#	Article	IF	CITATIONS
1	Removal of Oxide Nanoparticles in a Model Wastewater Treatment Plant: Influence of Agglomeration and Surfactants on Clearing Efficiency. Environmental Science & Technology, 2008, 42, 5828-5833.	10.0	431
2	Microscopical Investigations of PEDOT:PSS Thin Films. Advanced Functional Materials, 2009, 19, 1215-1220.	14.9	397
3	Fate and transformation of silver nanoparticles in urban wastewater systems. Water Research, 2013, 47, 3866-3877.	11.3	384
4	Triggered Release from Liposomes through Magnetic Actuation of Iron Oxide Nanoparticle Containing Membranes. Nano Letters, 2011, 11, 1664-1670.	9.1	339
5	High-resolution non-destructive three-dimensional imaging of integrated circuits. Nature, 2017, 543, 402-406.	27.8	316
6	Optically Bright Quantum Dots in Single Nanowires. Nano Letters, 2005, 5, 1439-1443.	9.1	266
7	Rapid Structure Determination of Microcrystalline Molecular Compounds Using Electron Diffraction. Angewandte Chemie - International Edition, 2018, 57, 16313-16317.	13.8	206
8	Structural and electronic properties of metastable epitaxialFeSi1+xfilms on Si(111). Physical Review B, 1992, 45, 13807-13810.	3.2	175
9	Three-Dimensional Si/Ge Quantum Dot Crystals. Nano Letters, 2007, 7, 3150-3156.	9.1	175
10	Scaling Hetero-Epitaxy from Layers to Three-Dimensional Crystals. Science, 2012, 335, 1330-1334.	12.6	149
11	The importance of equity finance for R&D activity. Small Business Economics, 2009, 33, 303-318.	6.7	105
12	Very high hole mobilities in modulation-doped Ge quantum wells grown by low-energy plasma enhanced chemical vapor deposition. Applied Physics Letters, 2002, 80, 2922-2924.	3.3	100
13	Three-dimensional imaging of integrated circuits with macro- to nanoscale zoom. Nature Electronics, 2019, 2, 464-470.	26.0	96
14	Electroluminescence from strain-compensated Si0.2Ge0.8/Si quantum-cascade structures based on a bound-to-continuum transition. Applied Physics Letters, 2002, 81, 4700-4702.	3.3	87
15	Element-Specific X-Ray Phase Tomography of 3D Structures at the Nanoscale. Physical Review Letters, 2015, 114, 115501.	7.8	80
16	Chemical ordering and boundary structure in strained-layer Si-Ge superlattices. Physical Review Letters, 1989, 63, 1819-1822.	7.8	75
17	A plasma process for ultrafast deposition of SiGe graded buffer layers. Applied Physics Letters, 2000, 76, 427-429.	3.3	74
18	Patent thickets, licensing and innovative performance. Industrial and Corporate Change, 2010, 19, 899-925.	2.8	67

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19	The thermoelectric properties of Ge/SiGe modulation doped superlattices. Journal of Applied Physics, 2013, 113, .	2.5	65
20	Fully automatic stitching and distortion correction of transmission electron microscope images. Journal of Structural Biology, 2010, 171, 163-173.	2.8	59
21	Low energy plasma enhanced chemical vapor deposition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 89, 288-295.	3.5	55
22	Unexpected Dominance of Vertical Dislocations in Highâ€Misfit Ge/Si(001) Films and Their Elimination by Deep Substrate Patterning. Advanced Materials, 2013, 25, 4408-4412.	21.0	55
23	Correlation between Oxygen Vacancies and Oxygen Evolution Reaction Activity for a Model Electrode: PrBaCo ₂ O _{5+<i>î´</i>} . Angewandte Chemie - International Edition, 2021, 60, 14609-14619.	13.8	54
24	Epitaxy of metal silicides. Thin Solid Films, 1990, 184, 295-308.	1.8	51
25	High resolution double-sided diffractive optics for hard X-ray microscopy. Optics Express, 2015, 23, 776.	3.4	46
26	Formation and transformation of calcium phosphate phases under biologically relevant conditions: Experiments and modelling. Acta Biomaterialia, 2018, 74, 478-488.	8.3	45
27	Self-aligned Ge and SiGe three-dimensional epitaxy on dense Si pillar arrays. Surface Science Reports, 2013, 68, 390-417.	7.2	43
28	In situ scanning tunneling microscopy study of C-induced Ge quantum dot formation on Si(100). Applied Physics Letters, 1999, 74, 994-996.	3.3	42
29	Ge quantum dot molecules and crystals: Preparation and properties. Surface Science, 2007, 601, 2787-2791.	1.9	38
30	Microscopic environment of Fe in epitaxially stabilizedcâ^'FeSi. Physical Review B, 1999, 59, 3675-3687.	3.2	34
31	Characterization of Catalysts in an Aberration-Corrected Scanning Transmission Electron Microscope. Journal of Physical Chemistry C, 2011, 115, 1080-1083.	3.1	33
32	Magnetron sputter epitaxy of SimGen/Si(001) strainedâ€layer superlattices. Applied Physics Letters, 1994, 65, 2220-2222.	3.3	29
33	Nucleation of Ge quantum dots on the C-alloyed Si(001) surface. Thin Solid Films, 2000, 380, 176-179.	1.8	29
34	Hall mobility of narrow Si0.2Ge0.8–Si quantum wells on Si0.5Ge0.5 relaxed buffer substrates. Applied Physics Letters, 2004, 84, 2829-2831.	3.3	28
35	Impact of template variations on shape and arrangement of Siâ^•Ge quantum dot arrays. Applied Physics Letters, 2008, 92, .	3.3	28
36	Intersubband absorption performed on p-type modulation-doped Si0.2Ge0.8/Si quantum wells grown on Si0.5Ge0.5 pseudosubstrate. Applied Physics Letters, 2002, 80, 3274-3276.	3.3	27

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37	Formation and ordering effects of C-induced Ge dots grown on Si (001) by molecular beam epitaxy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 74, 222-228.	3.5	26
38	Crystallization of 8mol% yttria-stabilized zirconia thin-films deposited by RF-sputtering. Solid State lonics, 2013, 232, 29-36.	2.7	26
39	X-ray diffraction investigation of a three-dimensional Si/SiGe quantum dot crystal. Physical Review B, 2009, 79, .	3.2	25
40	Resonant Ptychographic Tomography Facilitates Three-Dimensional Quantitative Colocalization of Catalyst Components and Chemical Elements. Journal of Physical Chemistry C, 2018, 122, 22920-22929.	3.1	24
41	Minimization of amorphous layer in Ar+ ion milling for UHR-EM. Ultramicroscopy, 2011, 111, 1224-1232.	1.9	23
42	Ge/SiGe superlattices for thermoelectric energy conversion devices. Journal of Materials Science, 2013, 48, 2829-2835.	3.7	23
43	Ferroelectric Self-Poling in GeTe Films and Crystals. Crystals, 2019, 9, 335.	2.2	22
44	Fabrication of Semiconductor Nanowires for Electronic Transport Measurements. Chimia, 2006, 60, 729-734.	0.6	21
45	A simple and fast TEM preparation method utilizing the pre-orientation in plate-like, needle-shaped and tubular materials. Ultramicroscopy, 2000, 84, 143-147.	1.9	20
46	Fabrication and characterization of high-efficiency double-sided blazed x-ray optics. Optics Letters, 2016, 41, 281.	3.3	20
47	Evolution and stability of ordered SiGe islands grown on patterned Si(100) substrates. Journal of Applied Physics, 2009, 105, .	2.5	19
48	Unveiling the morphology of buried In(Ga)As nanostructures by selective wet chemical etching: From quantum dots to quantum rings. Applied Physics Letters, 2007, 90, 173104.	3.3	18
49	Quantum-confined direct-gap transitions in tensile-strained Ge/SiGe multiple quantum wells. Applied Physics Letters, 2011, 99, 031907.	3.3	18
50	3D heteroepitaxy of mismatched semiconductors on silicon. Thin Solid Films, 2014, 557, 42-49.	1.8	18
51	Strain relaxation of graded SiGe buffers grown at very high rates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 71, 20-23.	3.5	17
52	Size control of carbon-induced Ge quantum dots. Applied Physics Letters, 2000, 77, 3218-3220.	3.3	17
53	Tuning the intersubband absorption in strained AlAsSbâ^•InGaAs quantum wells towards the telecommunications wavelength range. Journal of Applied Physics, 2006, 100, 116104.	2.5	16
54	Ge/SiGe superlattices for nanostructured thermoelectric modules. Thin Solid Films, 2013, 543, 153-156.	1.8	16

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55	Strain compensated Si/Si0.2Ge0.8 quantum cascade structures grown by low temperature molecular beam epitaxy. Journal of Crystal Growth, 2003, 251, 707-717.	1.5	15
56	Analysis of strain relaxation by microcracks in epitaxial GaAs grown on Geâ^•Si substrates. Journal of Applied Physics, 2007, 101, 103519.	2.5	15
57	Templated self-organization of SiGe quantum structures for nanoelectronics. Materials Science and Engineering C, 2007, 27, 947-953.	7.3	15
58	Unsupported Ptâ€Ni Aerogels with Enhanced High Current Performance and Durability in Fuel Cell Cathodes. Angewandte Chemie, 2017, 129, 10847-10850.	2.0	15
59	Schnelle StrukturaufklÄ ¤ ung mikrokristalliner molekularer Verbindungen durch Elektronenbeugung. Angewandte Chemie, 2018, 130, 16551-16555.	2.0	14
60	Structural and electronic properties of pseudomorphic FeSi1+x films on Si(111). Journal of Crystal Growth, 1993, 127, 634-637.	1.5	13
61	Shape and composition change of Ge dots due to Si capping. Applied Surface Science, 2004, 224, 139-142.	6.1	13
62	Current quantization in an optically driven electron pump based on self-assembled quantumÂdots. Nature Physics, 2011, 7, 423-427.	16.7	13
63	Toward high-performance Li(Ni _x Co _y Mn _z)O ₂ cathodes: facile fabrication of an artificial polymeric interphase using functional polyacrylates. Journal of Materials Chemistry A, 2018, 6, 17778-17786.	10.3	13
64	Thin relaxed SiGe virtual substrates grown by low-energy plasma-enhanced chemical vapor deposition. Journal of Crystal Growth, 2005, 281, 281-289.	1.5	12
65	Highly reflective AlGaAsSb/InP Bragg reflector at 1.55μm grown by MOVPE. Journal of Crystal Growth, 2006, 286, 247-254.	1.5	12
66	SiGe quantum dot crystals with periods down to 35 nm. Nanotechnology, 2015, 26, 255302.	2.6	12
67	Design guidelines for an electron diffractometer for structural chemistry and structural biology. Acta Crystallographica Section D: Structural Biology, 2019, 75, 458-466.	2.3	12
68	Highâ€resolution transmission electron microscopic study of the γâ€FeSi2/Si(111) interface. Applied Physics Letters, 1994, 64, 1938-1940.	3.3	11
69	Photoluminescence of carbon-induced Ge islands in silicon. Thin Solid Films, 2000, 380, 246-248.	1.8	11
70	High quality SiGe electronic material grown by low energy plasma enhanced chemical vapour deposition. Thin Solid Films, 2004, 459, 37-40.	1.8	10
71	Ge/SiGe Superlattices for Thermoelectric Devices Grown by Low-Energy Plasma-Enhanced Chemical Vapor Deposition. Journal of Electronic Materials, 2013, 42, 2030-2034.	2.2	10
72	Three-dimensional Ge/SiGe multiple quantum wells deposited on Si(001) and Si(111) patterned substrates. Semiconductor Science and Technology, 2015, 30, 105001.	2.0	10

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73	High temperature investigations of Si/SiGe based cascade structures using x-ray scattering methods. Journal Physics D: Applied Physics, 2005, 38, A121-A125.	2.8	9
74	Top-down method to introduce ultra-high elastic strain. Journal of Materials Research, 2017, 32, 726-736.	2.6	9
75	Chemical ordering and boundary structure in crystalline Siî—,Ge superlattices. Thin Solid Films, 1989, 183, 165-170.	1.8	8
76	Structural and optical properties of vertically correlated Ge island layers grown at low temperatures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 89, 54-57.	3.5	8
77	Shape transformation of Ge quantum dots due to Si overgrowth. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 16, 602-608.	2.7	8
78	Tunable lateral tunnel coupling between two self-assembled InGaAs quantum dots. , 2007, , .		8
79	Raman spectroscopy of carbon-induced germanium dots. Applied Physics Letters, 2001, 78, 1742-1744.	3.3	7
80	Efficient light emission at 1.54â€,μm from Er in Si excited by hot electron injection through thin suboxide layers. Journal of Applied Physics, 2002, 91, 9764.	2.5	7
81	Influence of capping on strain, composition and shape of SiGe islands. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 101, 71-76.	3.5	7
82	InAs/AlInAs quantum-dash cascade structures with electroluminescence in the mid-infrared. Journal of Crystal Growth, 2011, 323, 491-495.	1.5	7
83	Resonant tunneling in Si–SiGe superlattices on relaxed buffer substrates. Applied Surface Science, 2004, 224, 377-381.	6.1	6
84	Annealing studies of high Ge composition Si/SiGe multilayers. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, .	0.8	6
85	Silicon heteroepitaxy: interface structure and physical properties. Journal of Crystal Growth, 1991, 111, 889-896.	1.5	5
86	Investigation of the emitter structure in SiGe/Si resonant tunneling structures. Thin Solid Films, 2000, 369, 390-393.	1.8	5
87	Virtual substrates for the n- and p-type Si-MODFET grown at very high rates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 74, 113-117.	3.5	5
88	Interface roughness in SiGe quantum-cascade structures from x-ray reflectivity studies. Journal of Applied Physics, 2002, 91, 8974-8978.	2.5	5
89	Intersubband quantum cascades in the Si/SiGe material system. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 829-834.	2.7	5
90	Bandstructure analysis of strain compensated Si/SiGe quantum cascade structures. Optical Materials, 2005, 27, 841-845.	3.6	5

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91	Structural studies of strain-symmetrised modulation-doped Si/SiGe structures grown by molecular beam epitaxy. Journal of Crystal Growth, 2005, 278, 495-499.	1.5	5
92	3D SiGe QUANTUM DOT CRYSTALS: STRUCTURAL CHARACTERIZATION AND ELECTRONIC COUPLING. International Journal of Modern Physics B, 2009, 23, 2836-2841.	2.0	5
93	Tensile strained Ge quantum wells on Si substrate: Post-growth annealing versus low temperature re-growth. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 696-699.	3.5	5
94	Epitaxial Ge-crystal arrays for X-ray detection. Journal of Instrumentation, 2014, 9, C03019-C03019.	1.2	5
95	Valence band intersubband electroluminescence from Si/SiGe quantum cascade structures. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 11, 240-244.	2.7	4
96	Compressively strained Ge channels on relaxed SiGe buffer layers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 101, 102-105.	3.5	4
97	Electrochemical surface reshaping of polycrystalline platinum: Morphology and crystallography. Electrochimica Acta, 2008, 53, 4051-4058.	5.2	4
98	Si/SiGe Bound-to-Continuum Quantum Cascade Emitters. ECS Transactions, 2009, 16, 865-874.	0.5	4
99	Investigation of the local Ge concentration in Si/SiGe nanostructures by convergent-beam electron diffraction. Ultramicroscopy, 2010, 110, 1255-1266.	1.9	4
100	Vortex motion in amorphous ferrimagnetic thin film elements. AIP Advances, 2017, 7, .	1.3	4
101	Fast Deposition Process for Graded SiGe Buffer Layers. Japanese Journal of Applied Physics, 2000, 39, 2050-2053.	1.5	3
102	Title is missing!. Nanotechnology, 2000, 11, 298-304.	2.6	3
103	Si/SiGe quantum cascade structures emitting in the 10 μm range. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 89, 30-35.	3.5	3
104	Germanium islands embedded in strained silicon quantum wells grown on patterned substrates. Microelectronics Journal, 2002, 33, 525-529.	2.0	3
105	Transport and absorption in strain-compensated Si/Si1â^'xGex multiple quantum well and cascade structures deposited on Si0.5Ge0.5 pseudosubstrates. Materials Science in Semiconductor Processing, 2005, 8, 401-409.	4.0	3
106	The structure of dodecagonal (Ta,V)1.6Te imaged by phase-contrast scanning transmission electron microscopy. Journal of Solid State Chemistry, 2012, 194, 106-112.	2.9	3
107	Correlation between Oxygen Vacancies and Oxygen Evolution Reaction Activity for a Model Electrode: PrBaCo 2 O 5+ δ. Angewandte Chemie, 2021, 133, 14730-14740.	2.0	3
108	TEM study of InAs self-assembled quantum dots in GaAs. Thin Solid Films, 1998, 336, 38-41.	1.8	2

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109	Pre-structuring of silicon substrates to investigate MBE-growth of SiGe layers. Microelectronic Engineering, 1999, 46, 275-278.	2.4	2
110	Unexpected Dominance of Vertical Dislocations in Highâ€Misfit Ge/Si(001) Films and Their Elimination by Deep Substrate Patterning (Adv. Mater. 32/2013). Advanced Materials, 2013, 25, 4407-4407.	21.0	2
111	Imaging of retina cellular and subcellular structures using ptychographic hard X-ray tomography. Journal of Cell Science, 2021, 134, .	2.0	2
112	Silicon/silicon suboxide heterostructures grown by molecular beam epitaxy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 89, 274-278.	3.5	1
113	Surface Morphology of 4H-SiC after Thermal Oxidation. Materials Science Forum, 0, 963, 180-183.	0.3	1
114	Low Energy Plasma Enhanced Chemical Vapour Deposition - Plasma Enhanced Deposition of Epitaxial Si and Sige. Materials Research Society Symposia Proceedings, 2001, 696, 1.	0.1	0
115	Strain-compensated Si/Si0.2Ge0.8 quantum cascade structures grown on Si0.5Ge0.5 pseudo-substrates. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 613-617.	2.7	0
116	Impact of misfit dislocations on wavefront distortion in Si/SiGe/Si optical waveguides. Optics Communications, 2009, 282, 4716-4722.	2.1	0
117	Abbildung und Analytik in einem Strahl-korrigierten STEM. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 2040-2040.	1.2	0
118	High-resolution, Non-destructive X-ray Tomography. Chimia, 2018, 72, 339.	0.6	0
119	Pt catalytic effects on the corrosion and hydrogen chemisorption properties of Zircaloy-2. Journal of Nuclear Materials, 2021, 544, 152716.	2.7	0
120	EELS/EFTEM in life science: proof of the presence of H2O2 in human skin by Ce deposition in melanosomes. , 2008, , 413-414.		0