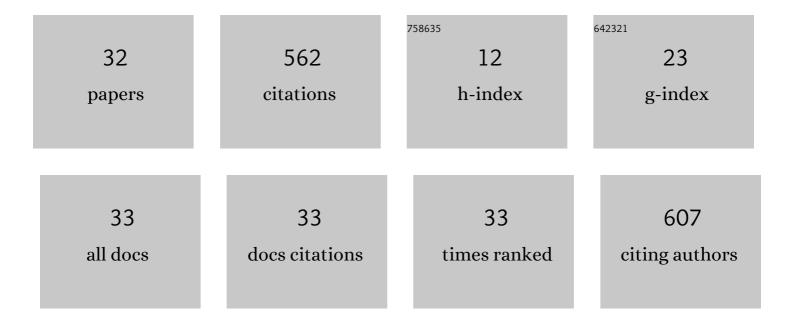
Anna Marzegalli

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8669544/publications.pdf

Version: 2024-02-01



#	Article	IF	CITATIONS
1	Scaling Hetero-Epitaxy from Layers to Three-Dimensional Crystals. Science, 2012, 335, 1330-1334.	6.0	149
2	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.	11.1	55
3	In-plane selective area InSb–Al nanowire quantum networks. Communications Physics, 2020, 3, .	2.0	37
4	New Approaches and Understandings in the Growth of Cubic Silicon Carbide. Materials, 2021, 14, 5348.	1.3	34
5	Temperature-Dependent Stability of Polytypes and Stacking Faults in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"> <mml:mrow> <mml:mi> Si </mml:mi> <mml:mi mathvariant="normal"> C </mml:mi </mml:mrow> : Reconciling Theory and Experiments.</mml:math 	1.5	33
6	Physical Review Applied, 2019, 12, . Photodetection in Hybrid Single-Layer Graphene/Fully Coherent Germanium Island Nanostructures Selectively Grown on Silicon Nanotip Patterns. ACS Applied Materials & Interfaces, 2016, 8, 2017-2026.	4.0	32
7	Perfect crystals grown from imperfect interfaces. Scientific Reports, 2013, 3, 2276.	1.6	31
8	Extended defects in 3C-SiC: Stacking faults, threading partial dislocations, and inverted domain boundaries. Acta Materialia, 2021, 213, 116915.	3.8	26
9	3D heteroepitaxy of mismatched semiconductors on silicon. Thin Solid Films, 2014, 557, 42-49.	0.8	18
10	Molecular dynamics simulations of extended defects and their evolution in 3C–SiC by different potentials. Modelling and Simulation in Materials Science and Engineering, 2020, 28, 015002.	0.8	15
11	The origin and nature of killer defects in 3C-SiC for power electronic applications by a multiscale atomistic approach. Journal of Materials Chemistry C, 2020, 8, 8380-8392.	2.7	15
12	Onset of vertical threading dislocations in Si1 <i>â^'x</i> Ge <i>x</i> /Si (001) at a critical Ge concentration. APL Materials, 2013, 1, .	2.2	14
13	3C-SiC Epitaxy on Deeply Patterned Si(111) Substrates. Materials Science Forum, 0, 858, 151-154.	0.3	11
14	Lattice tilt and strain mapped by X-ray scanning nanodiffraction in compositionally graded SiGe/Si microcrystals. Journal of Applied Crystallography, 2018, 51, 368-385.	1.9	11
15	Exceptional thermal strain reduction by a tilting pillar architecture: Suspended Ge layers on Si (001). Materials and Design, 2017, 116, 144-151.	3.3	9
16	Strain Engineering in Highly Mismatched SiGe/Si Heterostructures. Materials Science in Semiconductor Processing, 2017, 70, 117-122.	1.9	8
17	Misfit-Dislocation Distributions in Heteroepitaxy: From Mesoscale Measurements to Individual Defects and Back. Physical Review Applied, 2018, 10, .	1.5	8
18	Dynamics of crosshatch patterns in heteroepitaxy. Physical Review B, 2019, 100, .	1.1	8

Anna Marzegalli

#	Article	IF	CITATIONS
19	Structure and Stability of Partial Dislocation Complexes in 3C-SiC by Molecular Dynamics Simulations. Materials, 2019, 12, 3027.	1.3	7
20	Lattice bending in three-dimensional Ge microcrystals studied by X-ray nanodiffraction and modelling. Journal of Applied Crystallography, 2016, 49, 976-986.	1.9	6
21	Solving the critical thermal bowing in 3C-SiC/Si(111) by a tilting Si pillar architecture. Journal of Applied Physics, 2018, 123, 185703.	1.1	6
22	Burgers Vector Analysis of Vertical Dislocations in Ge Crystals by Large-Angle Convergent Beam Electron Diffraction. Microscopy and Microanalysis, 2015, 21, 637-645.	0.2	5
23	Nature and Shape of Stacking Faults in 3C‣iC by Molecular Dynamics Simulations. Physica Status Solidi (B): Basic Research, 2021, 258, 2000598.	0.7	5
24	Structure, interface abruptness and strain relaxation in self-assisted grown InAs/GaAs nanowires. Applied Surface Science, 2017, 395, 29-36.	3.1	4
25	Mechanism of stacking fault annihilation in 3C-SiC epitaxially grown on Si(001) by molecular dynamics simulations. CrystEngComm, 2021, 23, 1566-1571.	1.3	4
26	Atomic-scale insights on the formation of ordered arrays of edge dislocations in Ge/Si(001) films via molecular dynamics simulations. Scientific Reports, 2022, 12, 3235.	1.6	4
27	Strained MOSFETs on ordered SiGe dots. Solid-State Electronics, 2011, 65-66, 81-87.	0.8	2
28	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.	11.1	2
29	Strained MOSFETs on ordered SiGe dots. , 2010, , .		1
30	Evolution and Intersection of Extended Defects and Stacking Faults in 3Câ€SiC Layers on Si (001) Substrates by Molecular Dynamics Simulations: The Forest Dislocation Case. Physica Status Solidi (B): Basic Research, 2022, 259, .	0.7	1
31	Impact of inversion domain boundaries on the electronic properties of 3Câ€SiC. Physica Status Solidi (B): Basic Research, 0, , .	0.7	1
32	Stress engineering of boron doped diamond thin films via micro-fabrication. APL Materials, 2021, 9, 061109.	2.2	0