

Julian Stangl

List of Publications by Year in descending order

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51
papers

3,534
citations

201575

27
h-index

206029

48
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53
all docs

53
docs citations

53
times ranked

6320
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of X-ray photons by solution-processed lead halide perovskites. Nature Photonics, 2015, 9, 444-449.	15.6	916
2	Direct-bandgap emission from hexagonal Ge and SiGe alloys. Nature, 2020, 580, 205-209.	13.7	231
3	Au-Free Epitaxial Growth of InAs Nanowires. Nano Letters, 2006, 6, 1817-1821.	4.5	207
4	Growth Mechanism of Self-Catalyzed Group III-V Nanowires. Nano Letters, 2010, 10, 4443-4449.	4.5	177
5	Colloidal HgTe Nanocrystals with Widely Tunable Narrow Band Gap Energies: From Telecommunications to Molecular Vibrations. Journal of the American Chemical Society, 2006, 128, 3516-3517.	6.6	176
6	Three-Dimensional Si/Ge Quantum Dot Crystals. Nano Letters, 2007, 7, 3150-3156.	4.5	175
7	Hexagonal Silicon Realized. Nano Letters, 2015, 15, 5855-5860.	4.5	142
8	Unit Cell Structure of Crystal Polytypes in InAs and InSb Nanowires. Nano Letters, 2011, 11, 1483-1489.	4.5	117
9	xrayutilities: a versatile tool for reciprocal space conversion of scattering data recorded with linear and area detectors. Journal of Applied Crystallography, 2013, 46, 1162-1170.	1.9	100
10	Tuning the Magnetic Properties of Metal Oxide Nanocrystal Heterostructures by Cation Exchange. Nano Letters, 2013, 13, 586-593.	4.5	91
11	Gold-Free Ternary III-V Antimonide Nanowire Arrays on Silicon: Twin-Free down to the First Bilayer. Nano Letters, 2014, 14, 326-332.	4.5	88
12	Unraveling the Core-Shell Structure of Ligand-Capped Sn/SnOx Nanoparticles by Surface-Enhanced Nuclear Magnetic Resonance, Mössbauer, and X-ray Absorption Spectroscopies. ACS Nano, 2014, 8, 2639-2648.	7.3	87
13	Hydrogen-Bonded Organic Semiconductor Micro- And Nanocrystals: From Colloidal Syntheses to (Opto-)Electronic Devices. Journal of the American Chemical Society, 2014, 136, 16522-16532.	6.6	75
14	Quasi-epitaxial Metal-Halide Perovskite Ligand Shells on PbS Nanocrystals. ACS Nano, 2017, 11, 1246-1256.	7.3	74
15	Tuning the Localized Surface Plasmon Resonance in Cu ₂ S Nanocrystals by Postsynthetic Ligand Exchange. ACS Applied Materials & Interfaces, 2014, 6, 17770-17775.	4.0	68
16	X-ray Nanodiffraction on a Single SiGe Quantum Dot inside a Functioning Field-Effect Transistor. Nano Letters, 2011, 11, 2875-2880.	4.5	65
17	Strain-tuning of the optical properties of semiconductor nanomaterials by integration onto piezoelectric actuators. Semiconductor Science and Technology, 2018, 33, 013001.	1.0	58
18	Cellular interfaces with hydrogen-bonded organic semiconductor hierarchical nanocrystals. Nature Communications, 2017, 8, 91.	5.8	51

#	ARTICLE	IF	CITATIONS
19	From Highly Monodisperse Indium and Indium Tin Colloidal Nanocrystals to Self-Assembled Indium Tin Oxide Nanoelectrodes. ACS Nano, 2012, 6, 4113-4121.	7.3	48
20	Structural Investigations of Core-shell Nanowires Using Grazing Incidence X-ray Diffraction. Nano Letters, 2009, 9, 1877-1882.	4.5	47
21	Lattice-Matched InGaAs-InAlAs Core-shell Nanowires with Improved Luminescence and Photoresponse Properties. Nano Letters, 2015, 15, 3533-3540.	4.5	46
22	Crystal structure control in Au-free self-seeded InSb wire growth. Nanotechnology, 2011, 22, 145603.	1.3	45
23	Self-seeded, position-controlled InAs nanowire growth on Si: A growth parameter study. Journal of Crystal Growth, 2011, 334, 51-56.	0.7	41
24	Au-Seeded Growth of Vertical and in-Plane III-V Nanowires on Graphite Substrates. Nano Letters, 2014, 14, 1707-1713.	4.5	41
25	Coherence and wavefront characterization of Si-111 monochromators using double-grating interferometry. Journal of Synchrotron Radiation, 2010, 17, 299-307.	1.0	38
26	Scanning X-ray strain microscopy of inhomogeneously strained Ge micro-bridges. Journal of Synchrotron Radiation, 2014, 21, 111-118.	1.0	37
27	Unit cell structure of the wurtzite phase of GaP nanowires: X-ray diffraction studies and density functional theory calculations. Physical Review B, 2013, 88, .	1.1	28
28	Evidence of stacking-fault distribution along an InAs nanowire using micro-focused coherent X-ray diffraction. Journal of Applied Crystallography, 2008, 41, 272-280.	1.9	27
29	Phase Transformation in Radially Merged Wurtzite GaAs Nanowires. Crystal Growth and Design, 2015, 15, 4795-4803.	1.4	27
30	X-ray diffraction investigation of a three-dimensional Si/SiGe quantum dot crystal. Physical Review B, 2009, 79, .	1.1	25
31	Imaging the displacement field within epitaxial nanostructures by coherent diffraction: a feasibility study. New Journal of Physics, 2010, 12, 035006.	1.2	25
32	Ge/SiGe superlattices for thermoelectric energy conversion devices. Journal of Materials Science, 2013, 48, 2829-2835.	1.7	23
33	Core-shell nanowires: From the ensemble to single-wire characterization. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 316-319.	0.6	15
34	Self-Seeded Axio-Radial InAs-InAs _{1-x} P _x Nanowire Heterostructures beyond Common VLS Growth. Nano Letters, 2018, 18, 144-151.	4.5	15
35	Anodic oxide formation on aluminium-terbium alloys. Journal of Solid State Electrochemistry, 2016, 20, 1673-1681.	1.2	14
36	Strain distribution in single, suspended germanium nanowires studied using nanofocused x-rays. Nanotechnology, 2016, 27, 055705.	1.3	13

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37	Comparison of different bonding techniques for efficient strain transfer using piezoelectric actuators. Journal of Applied Physics, 2017, 121, 135303.	1.1	13
38	Spatially resolved strain within a single SiGe island investigated by X-ray scanning microdiffraction. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1829-1832.	0.8	12
39	Determining the directional strain shift coefficients for tensile Ge: a combined x-ray diffraction and Raman spectroscopy study. Measurement Science and Technology, 2017, 28, 025501.	1.4	12
40	Micro-machining of PMN-PT Crystals with Ultrashort Laser Pulses. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	10
41	Galvanic Exchange in Colloidal Metal/Metal-Oxide Core/Shell Nanocrystals. Journal of Physical Chemistry C, 2016, 120, 19848-19855.	1.5	9
42	X-ray diffraction strain analysis of a single axial InAs _{1-x} P _x nanowire segment. Journal of Synchrotron Radiation, 2015, 22, 59-66.	1.0	8
43	Evolution of thermal, structural, and optical properties of SiGe superlattices upon thermal treatment. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 533-540.	0.8	5
44	High Resolution X-Ray Diffraction and Reflectivity Studies of Vertical and Lateral Ordering in Multiple Self-Organized InGaAs Quantum Dots. Japanese Journal of Applied Physics, 1997, 36, 4084-4087.	0.8	4
45	Structural investigations of the $\Gamma \pm 12\text{Si} \leftrightarrow \text{Ge}$ superstructure. Journal of Applied Crystallography, 2015, 48, 262-268.	1.9	3
46	Strained MOSFETs on ordered SiGe dots. Solid-State Electronics, 2011, 65-66, 81-87.	0.8	2
47	The benefit of the European User Community from transnational access to national radiation facilities. Journal of Synchrotron Radiation, 2014, 21, 638-639.	1.0	2
48	(Invited) The Thermoelectric Properties of Ge/SiGe Based Superlattices: from Materials to Energy Harvesting Modules. ECS Transactions, 2014, 64, 929-937.	0.3	1
49	Strain-compensated Si/Si _{0.2} Ge _{0.8} quantum cascade structures grown on Si _{0.5} Ge _{0.5} pseudo-substrates. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 613-617.	1.3	0
50	Determination of the wurtzite content and orientation distribution of nanowire ensembles. Materials Research Society Symposia Proceedings, 2009, 1206, 113901.	0.1	0
51	Evolution of thermal, structural, and optical properties of SiGe superlattices upon thermal treatment (Phys. Status Solidi A 340•2016). Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 840-840.	0.8	0