

Thomas Stauden

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

475
citations

759233

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29
all docs

29
docs citations

29
times ranked

809
citing authors

#	ARTICLE	IF	CITATIONS
1	A First Implementation of an Automated Reel-to-Reel Fluidic Self-Assembly Machine. <i>Advanced Materials</i> , 2014, 26, 5942-5949.	21.0	97
2	Large-area fabrication of TiN nanoantenna arrays for refractory plasmonics in the mid-infrared by femtosecond direct laser writing and interference lithography [Invited]. <i>Optical Materials Express</i> , 2015, 5, 2625.	3.0	60
3	Integrated multilayer stretchable printed circuit boards paving the way for deformable active matrix. <i>Nature Communications</i> , 2019, 10, 4909.	12.8	59
4	Millimeter Thin and Rubber-Like Solid-State Lighting Modules Fabricated Using Roll-to-Roll Fluidic Self-Assembly and Lamination. <i>Advanced Materials</i> , 2015, 27, 3661-3668.	21.0	28
5	Effective Collection and Detection of Airborne Species Using SERS-Based Detection and Localized Electrodynamic Precipitation. <i>Advanced Materials</i> , 2013, 25, 3554-3559.	21.0	23
6	Localized Collection of Airborne Analytes: A Transport Driven Approach to Improve the Response Time of Existing Gas Sensor Designs. <i>Advanced Functional Materials</i> , 2014, 24, 3706-3714.	14.9	22
7	Surface Tension Directed Fluidic Self-Assembly of Semiconductor Chips across Length Scales and Material Boundaries. <i>Micromachines</i> , 2016, 7, 54.	2.9	21
8	Approaching Gas Phase Electrodeposition: Process and Optimization to Enable the Self-Aligned Growth of 3D Nanobridge-Based Interconnects. <i>Advanced Materials</i> , 2016, 28, 1770-1779.	21.0	19
9	Deformable printed circuit boards that enable metamorphic electronics. <i>NPG Asia Materials</i> , 2016, 8, e336-e336.	7.9	18
10	Consequences of plasma oxidation and vacuum annealing on the chemical properties and electron accumulation of In ₂ O ₃ surfaces. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	18
11	Approaching Roll-to-Roll Fluidic Self-Assembly: Relevant Parameters, Machine Design, and Applications. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 1928-1937.	2.5	17
12	3D Metamorphic Stretchable Microphone Arrays. <i>Advanced Materials Technologies</i> , 2017, 2, 1700131.	5.8	13
13	Core-Shell Transformation-Imprinted Solder Bumps Enabling Low-Temperature Fluidic Self-Assembly and Self-Alignment of Chips and High Melting Point Interconnects. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40608-40613.	8.0	13
14	Polarity determination and control of SiC grown on Si. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 165, 28-33.	3.5	11
15	Stress-adaptive meander track for stretchable electronics. <i>Flexible and Printed Electronics</i> , 2018, 3, 032001.	2.7	11
16	Corona Discharge Assisted Growth Morphology Switching of Tin-Doped Gallium Oxide for Optical Gas Sensing Applications. <i>Crystal Growth and Design</i> , 2019, 19, 6945-6953.	3.0	6
17	Gas Phase Electrodeposition Enabling the Programmable Three-Dimensional Growth of a Multimodal Room Temperature Nanobridge Gas Sensor Array. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33497-33504.	8.0	5
18	Active Matrix-Based Collection of Airborne Analytes: An Analyte Recording Chip Providing Exposure History and Finger Print. <i>Advanced Materials</i> , 2014, 26, 7600-7607.	21.0	4

#	ARTICLE	IF	CITATIONS
19	Nanostructuring of Graphene on Semi-Insulating SiC. Materials Science Forum, 0, 897, 735-738.	0.3	4
20	Metamorphic hemispherical microphone array for three-dimensional acoustics. Applied Physics Letters, 2017, 111, .	3.3	4
21	Metamorphic Stretchable Touchpad. Advanced Materials Technologies, 2019, 4, 1800446.	5.8	4
22	Localized collection of airborne biological hazards for environmental monitoring. Sensors and Actuators B: Chemical, 2018, 273, 906-915.	7.8	3
23	Corona assisted gallium oxide nanowire growth on silicon carbide. Journal of Crystal Growth, 2019, 509, 107-111.	1.5	3
24	Combinatorial gas phase electrodeposition for fabrication of three-dimensional multimodal gas sensor array. Materials Today: Proceedings, 2020, 33, 2451-2457.	1.8	3
25	Corona Assisted Ga Based Nanowire Growth on 3C-SiC(111)/Si(111) Pseudosubstrates. Materials Science Forum, 0, 897, 642-645.	0.3	2
26	Germanium Incorporation in Silicon Carbide Epitaxial Layers Using Molecular Beam Epitaxy on 4H-SiC Substrates. Materials Science Forum, 2019, 963, 127-130.	0.3	2
27	Localized and Programmable Chemical Vapor Deposition Using an Electrically Charged and Guided Molecular Flux. ACS Nano, 2020, 14, 12885-12894.	14.6	2
28	Nanoparticle gas phase electrodeposition: Fundamentals, fluid dynamics, and deposition kinetics. Journal of Aerosol Science, 2021, 151, 105652.	3.8	2
29	Self-Assembly: A First Implementation of an Automated Reel-to-Reel Fluidic Self-Assembly Machine (Adv.) Tj ETQq1 1,0,784314 rgBT /Ov	21.0	1