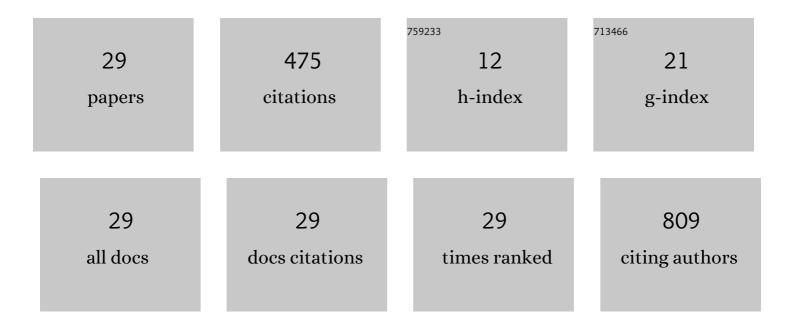
## **Thomas Stauden**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6448271/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	A First Implementation of an Automated Reelâ€ŧoâ€Reel Fluidic Selfâ€Assembly Machine. Advanced Materials, 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]. Optical Materials Express, 2015, 5, 2625.	3.0	60
3	Integrated multilayer stretchable printed circuit boards paving the way for deformable active matrix. Nature Communications, 2019, 10, 4909.	12.8	59
4	Millimeter Thin and Rubberâ€Like Solidâ€State Lighting Modules Fabricated Using Rollâ€toâ€Roll Fluidic Selfâ€Assembly and Lamination. Advanced Materials, 2015, 27, 3661-3668.	21.0	28
5	Effective Collection and Detection of Airborne Species Using SERSâ€Based Detection and Localized Electrodynamic Precipitation. Advanced Materials, 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. Advanced Functional Materials, 2014, 24, 3706-3714.	14.9	22
7	Surface Tension Directed Fluidic Self-Assembly of Semiconductor Chips across Length Scales and Material Boundaries. Micromachines, 2016, 7, 54.	2.9	21
8	Approaching Gas Phase Electrodeposition: Process and Optimization to Enable the Selfâ€Aligned Growth of 3D Nanobridgeâ€Based Interconnects. Advanced Materials, 2016, 28, 1770-1779.	21.0	19
9	Deformable printed circuit boards that enable metamorphic electronics. NPG Asia Materials, 2016, 8, e336-e336.	7.9	18
10	Consequences of plasma oxidation and vacuum annealing on the chemical properties and electron accumulation of In2O3 surfaces. Journal of Applied Physics, 2016, 120, .	2.5	18
11	Approaching Roll-to-Roll Fluidic Self-Assembly: Relevant Parameters, Machine Design, and Applications. Journal of Microelectromechanical Systems, 2015, 24, 1928-1937.	2.5	17
12	3D Metamorphic Stretchable Microphone Arrays. Advanced Materials Technologies, 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. ACS Applied Materials & Interfaces, 2018, 10, 40608-40613.	8.0	13
14	Polarity determination and control of SiC grown on Si. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 165, 28-33.	3.5	11
15	Stress-adaptive meander track for stretchable electronics. Flexible and Printed Electronics, 2018, 3, 032001.	2.7	11
16	Corona Discharge Assisted Growth Morphology Switching of Tin-Doped Gallium Oxide for Optical Gas Sensing Applications. Crystal Growth and Design, 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. ACS Applied Materials & Interfaces, 2019, 11, 33497-33504.	8.0	5
18	Active Matrixâ€Based Collection of Airborne Analytes: An Analyte Recording Chip Providing Exposure History and Finger Print. Advanced Materials, 2014, 26, 7600-7607.	21.0	4

THOMAS STAUDEN

#	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 ETQq	1 1 0 784 21.0	314 rgBT /0