

Sommawan Khumpuang

List of Publications by Year in descending order

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47
docs citations

47
times ranked

298
citing authors

#	ARTICLE	IF	CITATIONS
1	Plain-pattern to cross-section transfer (PCT) technique for deep x-ray lithography and applications. Journal of Micromechanics and Microengineering, 2004, 14, 1399-1404.	2.6	98
2	A MOSFET Fabrication Using a Maskless Lithography System in Clean-Localized Environment of Minimal Fab. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 393-398.	1.7	50
3	Analyses on Cleanroom-Free Performance and Transistor Manufacturing Cycle Time of Minimal Fab. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 551-556.	1.7	42
4	Photolithography for Minimal Fab System. IEEE Transactions on Sensors and Micromachines, 2013, 133, 272-277.	0.1	42
5	Geometrical strengthening and tip-sharpening of a microneedle array fabricated by X-ray lithography. Microsystem Technologies, 2006, 13, 209-214.	2.0	31
6	Design and Fabrication of 1D and 2D Micro Scanners Actuated by Double Layered Lead Zirconate Titanate (PZT) Bimorph Beams. Japanese Journal of Applied Physics, 2002, 41, 4321-4326.	1.5	28
7	Characterization of a SWNT-reinforced conductive polymer and patterning technique for applications of electronic textile. Sensors and Actuators A: Physical, 2011, 169, 378-382.	4.1	13
8	Microneedle fabrication using the plane pattern to cross-section transfer method. Smart Materials and Structures, 2006, 15, 600-606.	3.5	10
9	Fabrication and evaluation of a microspring contact array using a reel-to-reel continuous fiber process. Journal of Micromechanics and Microengineering, 2011, 21, 105019.	2.6	10
10	An experimental study of solid source diffusion by spin on dopants and its application for minimal silicon-on-insulator CMOS fabrication. Japanese Journal of Applied Physics, 2017, 56, 06GG01.	1.5	10
11	Design and fabrication of a coupled microneedle array and insertion guide array for safe penetration through skin. , 0, , .		8
12	Novel conductive polymer micro-spring contact array for large area woven electronic textile. , 2011, , .		7
13	Blood Plasma Separation Device using Capillary Phenomenon. , 2007, , .		6
14	Investigation of piezoresistive effect in p-channel metal-oxide-semiconductor field-effect transistors fabricated on circular silicon-on-insulator diaphragms using cost-effective minimal-fab process. Japanese Journal of Applied Physics, 2018, 57, 06HD03.	1.5	6
15	Fabrication of a high-density emitter array for electrospray thrusters using field emitter array process. Japanese Journal of Applied Physics, 2019, 58, SEEG04.	1.5	6
16	Development of Bio-chemical Sensor System Integrated with Blood Extraction Device. , 2007, , .		4
17	Mask design compensation for sloped sidewall structures fabricated by X-ray lithography. Microsystem Technologies, 2006, 13, 215-219.	2.0	3
18	Ultra-Fast Anisotropic Silicon Etching with Resulting Mirror Surfaces in Ammonia Solutions. , 2001, , 608-611.		2

#	ARTICLE	IF	CITATIONS
19	Portable blood extraction device integrated with biomedical monitoring system. , 2005, 6037, 133.		2
20	3-D PTFE microstructure fabricated using synchrotron radiation etching. Microsystem Technologies, 2008, 14, 1695-1698.	2.0	2
21	Characterization of Contact Structure for Woven Electronic Textile Using Conductive Polymer Micro-Cantilever Array. Electronics and Communications in Japan, 2014, 97, 48-53.	0.5	2
22	Development of Semiconductor Manufacturing System Integrating Wafer Process and Packaging Process Using a Half-Inch Sized Package. , 2018, , .		2
23	Fabrication of nano-capillary emitter arrays for ionic liquid electrospray thrusters. Japanese Journal of Applied Physics, 2021, 60, SCCF07.	1.5	2
24	Design and fabrication of 1D and 2D micro scanners actuated by double layered PZT bimorph beams. , 0, , .		1
25	Novel-shaped microneedle arrays for multiple uses of bio-medical applications. , 0, , .		1
26	Microneedle array and insertion guide array for safe use of biomedical applications. , 2004, , .		1
27	The Trouble With Incarcerating Tuberculosis: Experiences of Tuberculosis in a Prison in the UK. Chest, 2012, 142, 212A.	0.8	1
28	Fabrication of PVD-TiN metal-gate SOI-CMOS integrated circuits using minimal-fab and mega-fab hybrid process. , 2016, , .		1
29	Process development for CMOS fabrication using minimal fab. , 2017, , .		1
30	Effective performance of a tiny-chamber plasma etcher in scallop reduction. , 2017, , .		1
31	Development of a half-inch wafer for minimal fab process. , 2017, , .		1
32	Via Interconnections for Half-Inch Sized Package Fabricated by Minimal Fab. , 2018, , .		1
33	Fabrication of Electrospray Thrusters with a High-Density Emitter Array Utilizing Minimal-Fab System. , 2018, , .		1
34	Diamond SAW Resonators Made by Minimal-Fab Process. , 2018, , .		1
35	A method to deposit a known number of polystyrene latex particles on a flat surface. Aerosol Science and Technology, 2019, 53, 1353-1366.	3.1	1
36	Small Plasma Space with a Small Plasma Source and Its Advantage in Minimal Fab. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 747-752.	0.3	1

#	ARTICLE	IF	CITATIONS
37	Ultra-Compact Device-Manufacturing-System “Minimal Fab” Integrating Wafer and Packaging Process for High-Mix Low-Volume Productions and Its Packaging Applications. Journal of Japan Institute of Electronics Packaging, 2019, 22, 507-513.	0.1	1
38	Novel pressure-gradient driven component for blood extraction. , 2005, , .		0
39	Advanced simulation for shape-prediction of microstructures fabricated by PCT technique. , 2005, , .		0
40	Fabrication and simulation of novel crown-shaped microneedle array. , 2005, 5651, 288.		0
41	Method for accurate shape prediction of 3D structure fabricated by x-ray lithography. , 2005, , .		0
42	Passive Operating On-chip Plasma Isolation From Whole Blood. , 2007, , .		0
43	Development of fundamental manufacturing processes for minimal fab. , 2016, , .		0
44	An in-line MOSFET process with photomask fabrication process in a minimal fab. , 2017, , .		0
45	BGA packaging process for a device made by minimal fab. , 2017, , .		0
46	Fabrication of volcano structured Spindt-type field emitter arrays using Minimal Fab system. , 2018, , .		0
47	Via Interconnections for Half-Inch Packaging of Electronic Devices Using Minimal Fab Process Tools. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2020, 32, 763-768.	0.3	0