

# Frank A Stam

## List of Publications by Year in descending order

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29  
papers

435  
citations

933447

10  
h-index

752698

20  
g-index

29  
all docs

29  
docs citations

29  
times ranked

437  
citing authors

#	ARTICLE	IF	CITATIONS
1	Voltammetric characterisation of silicon-based microelectrode arrays and their application to mercury-free stripping voltammetry of copper ions. <i>Talanta</i> , 2007, 71, 1022-1030.	5.5	90
2	Effects of thermomechanical cycling on lead and lead-free (SnPb and SnAgCu) surface mount solder joints. <i>Microelectronics Reliability</i> , 2001, 41, 1815-1822.	1.7	67
3	Widening the bandwidth of vibration energy harvesters using a liquid-based non-uniform load distribution. <i>Sensors and Actuators A: Physical</i> , 2016, 246, 170-179.	4.1	43
4	Packaging effects of a novel explosion-proof gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2003, 95, 287-290.	7.8	39
5	Crystallinity and mechanical effects from annealing Parylene thin films. <i>Thin Solid Films</i> , 2016, 603, 371-376.	1.8	31
6	Sloshing liquid-metal mass for widening the bandwidth of a vibration energy harvester. <i>Sensors and Actuators A: Physical</i> , 2018, 284, 17-21.	4.1	21
7	Thermal response of microfilament heaters in gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2004, 103, 442-447.	7.8	20
8	Broadening the Bandwidth of Piezoelectric Energy Harvesters Using Liquid Filled Mass. <i>Procedia Engineering</i> , 2015, 120, 328-332.	1.2	19
9	Evaluation of a Gelatin-Modified Poly( $\epsilon$ -Caprolactone) Film as a Scaffold for Lung Disease. <i>Analytical Letters</i> , 2017, 50, 219-232.	1.8	16
10	Manufacturing methods of stretchable liquid metal-based antenna. <i>Microsystem Technologies</i> , 2019, 25, 3175-3184.	2.0	15
11	Micro-nano interconnect between gold bond pads and copper nano-wires embedded in a polymer template. , 2009, , .		9
12	Optimization of electrical stimulation parameters for electro-responsive hydrogels for biomedical applications. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	9
13	An electro-responsive hydrogel for intravascular applications: an in vitro and in vivo evaluation. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 264.	3.6	9
14	Low-stress hybridisation of emitters, detectors and driver circuitry on a silicon motherboard for optoelectronic interconnect architecture. <i>Materials Science in Semiconductor Processing</i> , 2000, 3, 449-453.	4.0	6
15	High-Temperature Die-Attach Technology for Power Devices Based on Thermocompression Bonding of Thin Ag Films. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2013, 3, 533-542.	2.5	6
16	Bismuth-filled anisotropically conductive adhesive for flip chip bonding. , 0, , .		5
17	The effect of power cycling on the reliability of lead-free surface mount assemblies. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2001, 24, 241-249.	1.3	5
18	Electromechanical Properties of Carbon Nanotube Infused Polyacrylamide Hydrogel. <i>Advances in Polymer Technology</i> , 2015, 34, .	1.7	5

#	ARTICLE	IF	CITATIONS
19	A Cardiovascular Occlusion Method Based on the Use of a Smart Hydrogel. IEEE Transactions on Biomedical Engineering, 2015, 62, 399-406.	4.2	4
20	Nanowire ACF for Ultrafine-Pitch Flip-Chip Interconnection. , 2018, , 701-723.		4
21	DC/DC converter 3D assembly for autonomous sensor nodes. , 2010, , .		3
22	3â€ Interdigitated electrodes for uniform stimulation of electroâ€responsive hydrogels for biomedical applications. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 1523-1528.	2.1	3
23	A swallowable diagnostic capsule with a direct access sensor using Anisotropic Conductive Adhesive. , 2011, , .		2
24	Mechanical assessment of an anisotropic conductive adhesive joint of a direct access sensor on a flexible substrate for a swallowable capsule application. Microelectronics Reliability, 2013, 53, 452-462.	1.7	2
25	Evaluation of chip-to-board interconnection using variable aspect ratio contact pad areas. , 2008, , .		1
26	Integration of a capacitive pressure sensing system into the outer catheter wall for coronary artery FFR measurements. Proceedings of SPIE, 2017, , .	0.8	1
27	Macro Requirement Within a Simulation Interface. Simulation, 1993, 60, 181-188.	1.8	0
28	Electrical characterization of Anisotropic conductive adhesive based flip chip for a direct access sensor. , 2010, , .		0
29	Reliability Testing of Implantable Polyacrylamide Electroactive Hydrogels. , 2012, , .		0