

Ingrid M Graz

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

6,009
citations

279798

23
h-index

289244

40
g-index

50
all docs

50
docs citations

50
times ranked

8826
citing authors

#	ARTICLE	IF	CITATIONS
1	An ultra-lightweight design for imperceptible plastic electronics. <i>Nature</i> , 2013, 499, 458-463.	27.8	2,133
2	Ultrathin, highly flexible and stretchable PLEDs. <i>Nature Photonics</i> , 2013, 7, 811-816.	31.4	832
3	25th Anniversary Article: A Soft Future: From Robots and Sensor Skin to Energy Harvesters. <i>Advanced Materials</i> , 2014, 26, 149-162.	21.0	732
4	A Multifunctional Capacitive Sensor for Stretchable Electronic Skins. <i>IEEE Sensors Journal</i> , 2009, 9, 2008-2009.	4.7	238
5	Extended cyclic uniaxial loading of stretchable gold thin-films on elastomeric substrates. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	213
6	Low-voltage Organic Thin-Film Transistors with High-k Nanocomposite Gate Dielectrics for Flexible Electronics and Optothermal Sensors. <i>Advanced Materials</i> , 2007, 19, 2241-2245.	21.0	193
7	Flexible active-matrix cells with selectively poled bifunctional polymer-ceramic nanocomposite for pressure and temperature sensing skin. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	181
8	Flexible ferroelectret field-effect transistor for large-area sensor skins and microphones. <i>Applied Physics Letters</i> , 2006, 89, 073501.	3.3	177
9	Flexible-foam-based capacitive sensor arrays for object detection at low cost. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	157
10	An Imperceptible Plastic Electronic Wrap. <i>Advanced Materials</i> , 2015, 27, 34-40.	21.0	145
11	Stretch dependence of the electrical breakdown strength and dielectric constant of dielectric elastomers. <i>Smart Materials and Structures</i> , 2013, 22, 104012.	3.5	126
12	Intrinsically stretchable and rechargeable batteries for self-powered stretchable electronics. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5505.	10.3	98
13	Silicone substrate with <i>in situ</i> strain relief for stretchable thin-film transistors. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	97
14	Adhesion and proliferation of human endothelial cells on photochemically modified polytetrafluoroethylene. <i>Biomaterials</i> , 2003, 24, 5139-5144.	11.4	82
15	Store Depletion-activated Ca ²⁺ Currents in Rat Basophilic Leukemia Mast Cells Are Inhibited by 2-Aminoethoxydiphenyl Borate. <i>Journal of Biological Chemistry</i> , 2002, 277, 26950-26958.	3.4	77
16	Microstructured Silicone Substrate for Printable and Stretchable Metallic Films. <i>Langmuir</i> , 2011, 27, 4279-4284.	3.5	71
17	Cell adhesion on polytetrafluoroethylene modified by UV-irradiation in an ammonia atmosphere. <i>Journal of Biomedical Materials Research - Part A</i> , 2003, 67A, 130-137.	4.0	52
18	Flexible pentacene organic thin film transistor circuits fabricated directly onto elastic silicone membranes. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	51

#	ARTICLE	IF	CITATIONS
19	Photopatterning the mechanical properties of polydimethylsiloxane films. Journal of Applied Physics, 2011, 109, 054905.	2.5	48
20	From Playroom to Lab: Tough Stretchable Electronics Analyzed with a Tabletop Tensile Tester Made from Toy Bricks. Advanced Science, 2016, 3, 1500396.	11.2	42
21	Electric-field-tuned color in photonic crystal elastomers. Applied Physics Letters, 2012, 100, 101902.	3.3	40
22	User-friendly, miniature biosensor flow cell for fragile high fundamental frequency quartz crystal resonators. Biosensors and Bioelectronics, 2009, 24, 2643-2648.	10.1	30
23	Large area expansion of a soft dielectric membrane triggered by a liquid gaseous phase change. Applied Physics A: Materials Science and Processing, 2011, 105, 1-3.	2.3	22
24	Generation and detection of broadband airborne ultrasound with cellular polymer ferroelectrets. Applied Physics Letters, 2007, 91, .	3.3	20
25	Complementary organic thin film transistor circuits fabricated directly on silicone substrates. Organic Electronics, 2010, 11, 1815-1820.	2.6	20
26	Applications of Smart Materials to Haptics. IEEE Transactions on Haptics, 2018, 11, 2-4.	2.7	12
27	Hyperelastic Material Parameter Determination and Numerical Study of TPU and PDMS Dampers. Materials, 2021, 14, 7639.	2.9	11
28	Stretchable touch sensitive keypad. Procedia Chemistry, 2009, 1, 152-155.	0.7	10
29	Zinc Oxide Nanowire Rigid Platforms on Elastomeric Substrates. ACS Applied Materials & Interfaces, 2011, 3, 3162-3166.	8.0	10
30	PbTiO ₃ P(VDF-TrFE) Nanocomposites for Pressure and Temperature Sensitive Skin. Ferroelectrics, 2011, 419, 23-27.	0.6	10
31	Adherence Kinetics of a PDMS Gripper with Inherent Surface Tackiness. Polymers, 2020, 12, 2440.	4.5	9
32	Micropatterned atmospheric pressure discharge surface modification of fluorinated polymer films for mammalian cell adhesion and protein binding. Applied Physics A: Materials Science and Processing, 2008, 92, 547-555.	2.3	7
33	Elastic components for prosthetic skin. , 2011, 2011, 8373-6.		7
34	High frequency QCM based sensor system for sensitive detection of dissolved analytes. Procedia Engineering, 2010, 5, 835-837.	1.2	6
35	Transparent pyroelectric sensors and organic field-effect transistors with fluorinated polymers: steps towards organic infrared detectors. IEEE Transactions on Dielectrics and Electrical Insulation, 2006, 13, 1087-1092.	2.9	5
36	Embedded NiTi Wires for Improved Dynamic Thermomechanical Performance of Silicone Elastomers. Materials, 2020, 13, 5076.	2.9	5

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37	Body Temperature-Triggered Mechanical Instabilities for High-Speed Soft Robots. <i>Soft Robotics</i> , 2022, 9, 128-134.	8.0	4
38	Polymer Electrets and Ferroelectrets as EAPs: Fundamentals. , 2016, , 551-560.		3
39	Cellular ferroelectrets for electroactive polymer hybrid systems: soft matter integrated devices with advanced functionality. , 2008, , .		2
40	Stretchable electrodes for highly flexible electronics. , 2021, , 479-500.		2
41	Do ferroelectrets always behave like ferroelectrics?. , 0, , .		1
42	PbTiO ₃ /P(VDF-TrFE) nanocomposites for flexible skin. , 2008, , .		1
43	High Frequency QCM Flow Cell with Enhanced Accuracy for Liquid and Biochemical Sensing. <i>Procedia Chemistry</i> , 2009, 1, 1507-1510.	0.7	1
44	Anschmiegsame Elektronik. <i>Mechanik der Makroelektronik. Physik in Unserer Zeit</i> , 2009, 40, 243-249.	0.0	1
45	Electromechanically active polymer transducers: research in Europe. <i>Smart Materials and Structures</i> , 2013, 22, 100301.	3.5	1
46	Polymer Electrets and Ferroelectrets as EAPs: Fundamentals. , 2016, , 1-10.		1
47	Being a Woman Physicist in Austria. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
48	Piezoelectric polymers. <i>Materials Research Society Symposia Proceedings</i> , 2005, 889, 1.	0.1	0