Ingrid M Graz

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Body Temperature-Triggered Mechanical Instabilities for High-Speed Soft Robots. Soft Robotics, 2022, 9, 128-134.	8.0	4
2	Stretchable electrodes for highly flexible electronics. , 2021, , 479-500.		2
3	Hyperelastic Material Parameter Determination and Numerical Study of TPU and PDMS Dampers. Materials, 2021, 14, 7639.	2.9	11
4	Embedded NiTi Wires for Improved Dynamic Thermomechanical Performance of Silicone Elastomers. Materials, 2020, 13, 5076.	2.9	5
5	Adherence Kinetics of a PDMS Gripper with Inherent Surface Tackiness. Polymers, 2020, 12, 2440.	4.5	9
6	Applications of Smart Materials to Haptics. IEEE Transactions on Haptics, 2018, 11, 2-4.	2.7	12
7	Polymer Electrets and Ferroelectrets as EAPs: Fundamentals. , 2016, , 1-10.		1
8	Polymer Electrets and Ferroelectrets as EAPs: Fundamentals. , 2016, , 551-560.		3
9	From Playroom to Lab: Tough Stretchable Electronics Analyzed with a Tabletop Tensile Tester Made from Toyâ€Bricks. Advanced Science, 2016, 3, 1500396.	11.2	42
10	An Imperceptible Plastic Electronic Wrap. Advanced Materials, 2015, 27, 34-40.	21.0	145
11	25th Anniversary Article: A Soft Future: From Robots and Sensor Skin to Energy Harvesters. Advanced Materials, 2014, 26, 149-162.	21.0	732
12	An ultra-lightweight design for imperceptible plastic electronics. Nature, 2013, 499, 458-463.	27.8	2,133
13	Ultrathin, highly flexible and stretchable PLEDs. Nature Photonics, 2013, 7, 811-816.	31.4	832
14	Intrinsically stretchable and rechargeable batteries for self-powered stretchable electronics. Journal of Materials Chemistry A, 2013, 1, 5505.	10.3	98
15	Stretch dependence of the electrical breakdown strength and dielectric constant of dielectric elastomers. Smart Materials and Structures, 2013, 22, 104012.	3.5	126
16	Electromechanically active polymer transducers: research in Europe. Smart Materials and Structures, 2013, 22, 100301.	3.5	1
17	Electric-field-tuned color in photonic crystal elastomers. Applied Physics Letters, 2012, 100, 101902.	3.3	40
18	Microstructured Silicone Substrate for Printable and Stretchable Metallic Films. Langmuir, 2011, 27, 4279-4284.	3.5	71

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10Interfaces, 2011, 3, 3162-3165.6.01.020Eagle area equation of a soft dielectric membrane triggered by a liquid gaseous phase change. Applied2.32221Photopatterning the mechanical properties of polydinethyleloxane films. Journal of Aoplied Physics.2.04822Silcone substrate with (-i) in situ (-i): strain relef for stretchable thin-film transistors. Applied8.39723Photopatterning the mechanical properties of polydinethyleloxane films. Journal of Aoplied Physics.0.61024Physics Letters, 2011, 98, .7725Physics Letters, 2011, 98, .726Physics Letters, 2011, 98, .727Perforedetrics, 2011, 413, 25-27.728Eastic components for prosthetic skin. 2011, 2011, 8373-6.729Physics Letters, 2010, 5, 835-837.720Remodetrics, 2010, 11, 115-1820.2.021Remodetrics, 2010, 11, 115-1820.2.022Remodetry organic thin film transistor circuits fabricated directly on silcone substrates.2.623Physics Letters, 2000, 94, .1.024Eastic Components for prosthetic skin. 2012, 2012, 813-837.0.725Remodet cyclic unsistic loading of stretchable gold thin-films on elastomeric substrates. Applied8.324Physics Letters, 2000, 94, .1.01.025Stretchable tauch sensitive keypad. Procedia Chemistry, 2009, 1, 152-155.0.726Ight Proguency QCM Flow Cell with Ehanced Accuracy for Liquid and Biochemical Sensing. Procedia	#	Article	IF	CITATIONS
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21Photopatterning the mechanical properties of polydimethylsilosane films. Journal of Applied Physics.2.64822Splicone substrate with civin situs (i): strain relief for stretchable thin-film transistors. Applied8.39723PbilO: sub: 34: WDS-36" PVOP-TrEP 36" Nanocomposites for Pressure and Temperature Sensitive Skin.0.61024Elastic components for prosthetic skin., 2011, 2011, 8373-6.725Wigh frequency QCM based sensor system for sensitive detection of dissolved analytes. Procedia1.2626Complementary organic thin film transistor circuits fabricated directly on silicone substrates.2.62027Resube pentacene organic thin film transistor circuits fabricated directly on silicone substrates.8.321328Extended cyclic uniaxial loading of stretchable gold thin-films on elastomeric substrates. Applied Physics Letters, 2009, 95.1029Stretchable touch sensitive keypad. Proceedia Chemistry, 2009, 1, 152-155.0.71020Wigh Frequency OCM Flow Cell with Enhanced Accuracy for Liquid and Biochemical Sensing. Proceedia0.7121Viser-friendly, miniture biosensor flow cell for fragile high fundamental frequency quartz crystal0.0123Wigh Frequency OCM Elew the Sensor for Stretchable Electronic Shins. IEEE Sensors Journal, 2009, 9, 1518123Pickble active-matrix cells with selectively poled binglie high fundamental frequency quartz crystal0.4124User-friendly, miniture sensor for Stretchable Electronic Shins. IEEE Sensors Journal, 2009, 9, 4, 728823	20	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
22Silicone substrate with (D)In situ(1) strain relief for stretchable thin film transistors. Applieda.39723PoliCy subs 3 (Jsubs AC PV/DFT/FE) & Nanocomposites for Pressure and Temperature Sensitive Skin.0.610024Elastic components for prosthetic skin., 2011, 2011, 8373-6.725High frequency QCM based sensor system for sensitive detection of dissolved analytes. Proceedia1.2626Cognice Electronics, 2010, 11, 1815-1820.2.62.027Flestbe pentacene erganic thin film transistor circuits fabricated directly on silicone substrates.2.62.028Extended cyclic uniaxial loading of stretchable gold thin films on elastomeric substrates. Applied3.31.229Stretchable touch sensitive keypad. Proceedia Chemistry, 2009, 1, 152-155.0.71.020High Frequency QCM flow Cell with Enhanced Accuracy for Liquid and Biochemical Sensing. Proceedia0.7121User-friendly, miniature biosensor flow cell of fingelle high fundamental frequency quartz crystal0.0122Flexble ective-mixely. Bole diffunctional polymer-ceranic nanocomposite for Scons. Biosensors and Bioelectronic Skins. IEEE Sensors Journal, 2009, 9.3.623Elexble cative-metrix cells with selectively poled bifunctional polymer.ceranic nanocomposite for Scons. 2009.2.518124Adultifunctional Capacitive Sensor for Stretchable Electronic Skins. IEEE Sensors Journal, 2009, 9.3.72.325Elexble-coam-based capacitive sensor arrays for object detection at low cost. Applied Physics. Letters.3.3132 <td>21</td> <td>Photopatterning the mechanical properties of polydimethylsiloxane films. Journal of Applied Physics, 2011, 109, 054905.</td> <td>2.5</td> <td>48</td>	21	Photopatterning the mechanical properties of polydimethylsiloxane films. Journal of Applied Physics, 2011, 109, 054905.	2.5	48
23PbTIO subb 34 (abb) 34 (bb) 24 27.0.61024Elastic components for prosthetic skin., 2011, 2011, 8373-6.725High frequency OCM based sensor system for sensitive detection of dissolved analytes. Procedia1.2626Complementary organic thin film transistor circuits fabricated directly on silicone substrates.2.62027Flevible pentacene organic thin film transistor circuits fabricated directly onto elastic silicone3.33128Extended cyclic uniaxial loading of stretchable gold thin-films on elastomeric substrates. Applied Physics Letters, 2009, 95, .0.71029Stretchable touch sensitive keypad. Procedia Chemistry, 2009, 1, 152-155.0.71020Stretchable touch sensitive detection is. Physik in Unserer Zeit, 2009, 40, 243-249.0.0121Jese-friendly, minitature biosensor flow cell for fragile high fundamental frequency quartz crystal0.13023Flexible active matrix cells with electively olded bifunctional polymer ceranic nanocomposite for ressure and temperature sensing skin. Journal of Applied Physics, 2009, 105, 24, 2643-2648.0.0124Multifunctional Capacitive Sensor for Stretchable Electronic Skins. IEEE Sensors Journal, 2009, 9, 4, 3333125Elektbergense capacitive sensor arrays for object detection at low cost. Applied Physics Letters, 3, 3157	22	Silicone substrate with <i>in situ</i> strain relief for stretchable thin-film transistors. Applied Physics Letters, 2011, 98, .	3.3	97
24Elastic components for prosthetic skin., 2011, 2011, 8373-6.725High frequency QCM based sensor system for sensitive detection of dissolved analytes. Procedia1.2626Complementary organic thin film transistor circuits fabricated directly on silicone substrates.2.62027Flexible pentacene organic thin film transistor circuits fabricated directly onto elastic silicone3.36128Extended cyclic uniaxial loading of stretchable gold thin films on elastomeric substrates. Applied3.31329Stretchable touch sensitive keypad. Procedia Chemistry. 2009, 1, 152-155.0.71030High Frequency QCM Flow Cell with Enhanced Accuracy for Liquid and Blochemical Sensing. Procedia0.7131Anschmiegsame Elektronik. Mechanik der Makroelektronik. Physik in Unserer Zeit, 2009, 40, 243-244.0.0132Flexible active-matrix cells with selectively poled blfunctional physics. 2009, 10, 243-244.1.013033Flexible active-matrix cells with selectively beled blfunctional Sensing. Procedia0.7134Multificntonal Capacitive Sensor for Stretchable Electronic Skins. IEEE Sensors Journal, 2009, 9, 4, 6135Flexible active-matrix cells with selectively beled toffunctional Sensing. Procedia1.7236Stocher and temperature sensing skin. Journal of Applied Physics. Zetters, 2009, 9, 4, 63.8337Flexible active-matrix cells with selectively beled blfunctional Sensing. Forcedia1.4338Flexible active-matrix cells with selective fiele trans Sensing. Electional, 2009,	23	PbTiO ₃ – P(VDF-TrFE) – Nanocomposites for Pressure and Temperature Sensitive Skin. Ferroelectrics, 2011, 419, 23-27.	0.6	10
25High frequency QCM based sensor system for sensitive detection of dissolved analytes. Procedla1.2626Complementary organic thin film transistor circuits fabricated directly on silicone substrates.2.62027Flexible pentacene organic thin film transistor circuits fabricated directly onto elastic silicone3.33128Extended cyclic uniaxial loading of stretchable gold thin-films on elastomeric substrates. Applied3.321329Stretchable touch sensitive keypad. Procedia Chemistry, 2009, 1, 152-155.0.71030High Frequency QCM Flow Cell with Enhanced Accuracy for Liquid and Biochemical Sensing. Procedia0.7131Anschmiegsame Elektronik. Mechanik der Makroelektronik. Physik in Unserer Zeit, 2009, 40, 243-249.0.0132Siesensors and Bioelectronics, 2009, 24, 2643-2648.10.13034Flexible archive-matrix cells with selectively poled bifunctional polymer-geranic nanocomposite for ressure and temperature sensing skin. Journal of Applied Physics. JEEE Sensors Journal, 2009, 9,1,34Abultifunctional Capacitive Sensor for Stretchable Electronic Skins. IEEE Sensors Journal, 2009, 9,3.3157	24	Elastic components for prosthetic skin. , 2011, 2011, 8373-6.		7
26Complementary organic thin film transistor circuits fabricated directly on silicone substrates.2.62027Flexible pentacene organic thin film transistor circuits fabricated directly onto elastic silicone3.35128Extended cyclic uniaxial loading of stretchable gold thin-films on elastomeric substrates. Applied3.321329Stretchable touch sensitive keypad. Procedia Chemistry, 2009, 1, 152-155.0.71030High Frequency QCM Flow Cell with Enhanced Accuracy for Liquid and Biochemical Sensing. Procedia0.7131Anschmiegsame Elektronik. Mechanik der Makroelektronik. Physik in Unserer Zeit, 2009, 40, 243-249.0.0132Bersfriendly, miniature biosensor flow cell for fragile high fundamental frequency quartz crystal0.13033Flexible active matrix cells with selectively poled bifunctional polymer-ceramic nanocomposite for 2008-2009.2.518134Abultifunctional Capacitive Sensor for Stretchable Electronic Skins. IEEE Sensors Journal, 2009, 9, 0.333167	25	High frequency QCM based sensor system for sensitive detection of dissolved analytes. Procedia Engineering, 2010, 5, 835-837.	1.2	6
27Flexible pentacene organic thin film transistor circuits fabricated directly onto elastic silicone3.35128Extended cyclic uniaxial loading of stretchable gold thin-films on elastomeric substrates. Applied Physics Letters, 2009, 94, .3.321329Stretchable touch sensitive keypad. Procedia Chemistry, 2009, 1, 152-155.0.71030High Frequency QCM Flow Cell with Enhanced Accuracy for Liquid and Biochemical Sensing. Procedia Chemistry, 2009, 1, 1507-1510.0.7131Anschmiegsame Elektronik. Mechanik der Makroelektronik. Physik in Unserer Zeit, 2009, 40, 243-249.0.0132Jeser-friendly, miniature biosensor flow cell for fragile high fundamental frequency quartz crystal resonators. Biosensors and Bioelectronics, 2009, 24, 2643-2648.10.13033Flexible active-matrix cells with selectively poled bifunctional polymer-ceramic nanocomposite for 	26	Complementary organic thin film transistor circuits fabricated directly on silicone substrates. Organic Electronics, 2010, 11, 1815-1820.	2.6	20
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29Stretchable touch sensitive keypad. Procedia Chemistry, 2009, 1, 152-155.0.71030High Frequency QCM Flow Cell with Enhanced Accuracy for Liquid and Biochemical Sensing. Procedia0.7131Anschmiegsame Elektronik. Mechanik der Makroelektronik. Physik in Unserer Zeit, 2009, 40, 243-249.0.0132User-friendly, miniature biosensor flow cell for fragile high fundamental frequency quartz crystal resonators. Biosensors and Bioelectronics, 2009, 24, 2643-2648.10.13033Flexible active-matrix cells with selectively poled bifunctional polymer-ceramic nanocomposite for pressure and temperature sensing skin. Journal of Applied Physics, 2009, 106, .2.518134AMultifunctional Capacitive Sensor for Stretchable Electronic Skins. IEEE Sensors Journal, 2009, 9, 2008-2009.3.3157	28	Extended cyclic uniaxial loading of stretchable gold thin-films on elastomeric substrates. Applied Physics Letters, 2009, 94, .	3.3	213
30High Frequency QCM Flow Cell with Enhanced Accuracy for Liquid and Biochemical Sensing. Procedia0.7131Anschmiegsame Elektronik. Mechanik der Makroelektronik. Physik in Unserer Zeit, 2009, 40, 243-249.0.0132User-friendly, miniature biosensor flow cell for fragile high fundamental frequency quartz crystal10.13033Flexible active-matrix cells with selectively poled bifunctional polymer-ceramic nanocomposite for pressure and temperature sensing skin. Journal of Applied Physics, 2009, 106, .2.518134AMultifunctional Capacitive Sensor for Stretchable Electronic Skins. IEEE Sensors Journal, 2009, 9, 2008-2009.4.723835Flexible-foam-based capacitive sensor arrays for object detection at low cost. Applied Physics Letters, 2008, 92, .3.3157	29	Stretchable touch sensitive keypad. Procedia Chemistry, 2009, 1, 152-155.	0.7	10
31Anschmiegsame Elektronik. Mechanik der Makroelektronik. Physik in Unserer Zeit, 2009, 40, 243-249.0.0132User-friendly, miniature biosensor flow cell for fragile high fundamental frequency quartz crystal10.13033Flexible active-matrix cells with selectively poled bifunctional polymer-ceramic nanocomposite for pressure and temperature sensing skin. Journal of Applied Physics, 2009, 106, .2.518134A Multifunctional Capacitive Sensor for Stretchable Electronic Skins. IEEE Sensors Journal, 2009, 9, 2008-2009.4.723835Flexible-foam-based capacitive sensor arrays for object detection at low cost. Applied Physics Letters, 2008, 92, .3.3157	30	High Frequency QCM Flow Cell with Enhanced Accuracy for Liquid and Biochemical Sensing. Procedia Chemistry, 2009, 1, 1507-1510.	0.7	1
32User-friendly, miniature biosensor flow cell for fragile high fundamental frequency quartz crystal10.13033Flexible active-matrix cells with selectively poled bifunctional polymer-ceramic nanocomposite for pressure and temperature sensing skin. Journal of Applied Physics, 2009, 106, .2.518134AMultifunctional Capacitive Sensor for Stretchable Electronic Skins. IEEE Sensors Journal, 2009, 9, 2008-2009.4.723835Flexible-foam-based capacitive sensor arrays for object detection at low cost. Applied Physics Letters, 2008, 92, .3.3157	31	Anschmiegsame Elektronik. Mechanik der Makroelektronik. Physik in Unserer Zeit, 2009, 40, 243-249.	0.0	1
33Flexible active-matrix cells with selectively poled bifunctional polymer-ceramic nanocomposite for pressure and temperature sensing skin. Journal of Applied Physics, 2009, 106, .2.518134A Multifunctional Capacitive Sensor for Stretchable Electronic Skins. IEEE Sensors Journal, 2009, 9, 2008-2009.4.723835Flexible-foam-based capacitive sensor arrays for object detection at low cost. Applied Physics Letters, 2008, 92, .3.3157	32	User-friendly, miniature biosensor flow cell for fragile high fundamental frequency quartz crystal resonators. Biosensors and Bioelectronics, 2009, 24, 2643-2648.	10.1	30
34A Multifunctional Capacitive Sensor for Stretchable Electronic Skins. IEEE Sensors Journal, 2009, 9, 2008-2009.4.723835Flexible-foam-based capacitive sensor arrays for object detection at low cost. Applied Physics Letters, 2008, 92, .3.3157	33	Flexible active-matrix cells with selectively poled bifunctional polymer-ceramic nanocomposite for pressure and temperature sensing skin. Journal of Applied Physics, 2009, 106, .	2.5	181
Flexible-foam-based capacitive sensor arrays for object detection at low cost. Applied Physics Letters, 35 2008, 92, . 3.3 157	34	A Multifunctional Capacitive Sensor for Stretchable Electronic Skins. IEEE Sensors Journal, 2009, 9, 2008-2009.	4.7	238
	35	Flexible-foam-based capacitive sensor arrays for object detection at low cost. Applied Physics Letters, 2008, 92, .	3.3	157

Bolio 2008, ... 36 PbTiO<inf>3</inf>/P(VDF-TrFE) nanocomposites for flexible skin. , 2008, ...

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#	Article	IF	CITATIONS
37	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
38	Cellular ferroelectrets for electroactive polymer hybrid systems: soft matter integrated devices with advanced functionality. , 2008, , .		2
39	Generation and detection of broadband airborne ultrasound with cellular polymer ferroelectrets. Applied Physics Letters, 2007, 91, .	3.3	20
40	Lowâ€Voltage Organic Thinâ€Film Transistors with Highâ€ <i>k</i> Nanocomposite Gate Dielectrics for Flexible Electronics and Optothermal Sensors. Advanced Materials, 2007, 19, 2241-2245.	21.0	193
41	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
42	Flexible ferroelectret field-effect transistor for large-area sensor skins and microphones. Applied Physics Letters, 2006, 89, 073501.	3.3	177
43	Being a Woman Physicist in Austria. AIP Conference Proceedings, 2005, , .	0.4	0
44	Piezoelectric polymers. Materials Research Society Symposia Proceedings, 2005, 889, 1.	0.1	0
45	Cell adhesion on polytetrafluoroethylene modified by UV-irradiation in an ammonia atmosphere. Journal of Biomedical Materials Research - Part A, 2003, 67A, 130-137.	4.0	52
46	Adhesion and proliferation of human endothelial cells on photochemically modified polytetrafluoroethylene. Biomaterials, 2003, 24, 5139-5144.	11.4	82
47	Store Depletion-activated CaT1 Currents in Rat Basophilic Leukemia Mast Cells Are Inhibited by 2-Aminoethoxydiphenyl Borate. Journal of Biological Chemistry, 2002, 277, 26950-26958.	3.4	77

48 Do ferroelectrets always behave like ferroelectrics?., 0, , .

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