## Frederic Houze

List of Publications by Year in descending order

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430874 454955 1,057 60 18 30 citations h-index g-index papers 60 60 60 1203 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Electromechanical conversion efficiency of GaN NWs: critical influence of the NW stiffness, the Schottky nano-contact and the surface charge effects. Nanoscale, 2022, 14, 4965-4976.	5 <b>.</b> 6	3
2	High Piezoelectric Conversion Properties of Axial InGaN/GaN Nanowires. Nanomaterials, 2018, 8, 367.	4.1	14
3	Energy harvesting efficiency in GaN nanowire-based nanogenerators: the critical influence of the Schottky nanocontact. Nanoscale, 2017, 9, 4610-4619.	<b>5.</b> 6	29
4	Piezo-generator integrating a vertical array of GaN nanowires. Nanotechnology, 2016, 27, 325403.	2.6	50
5	Wide range local resistance imaging on fragile materials by conducting probe atomic force microscopy in intermittent contact mode. Applied Physics Letters, 2016, 108, 243101.	3.3	2
6	Nitride Nanowires: From Rigid to Flexible Piezo-generators. Journal of Physics: Conference Series, 2016, 773, 012010.	0.4	1
7	From single III-nitride nanowires to piezoelectric generators: New route for powering nomad electronics. Semiconductor Science and Technology, 2016, 31, 103002.	2.0	45
8	Conducting Probe Atomic Force Microscope as a Relevant Tool for Studying Some Phenomena in MEMS Switches. Sensing and Imaging, 2015, 16, 1.	1.5	0
9	Three-level multi-scale modeling of electrical contacts sensitivity study and experimental validation. , 2015, , .		4
10	Specific methodology for capacitance imaging by atomic force microscopy: A breakthrough towards an elimination of parasitic effects. Applied Physics Letters, 2014, 104, 083108.	3.3	11
11	GaN nanowires for piezoelectric generators. Physica Status Solidi - Rapid Research Letters, 2014, 8, 414-419.	2.4	23
12	Impact of the GaN nanowire polarity on energy harvesting. Applied Physics Letters, 2014, 104, .	3.3	20
13	Conductive-probe AFM characterization of graphene sheets bonded to gold surfaces. Applied Surface Science, 2012, 258, 2920-2926.	6.1	35
14	Evaluation of the nanotube intrinsic resistance across the tip-carbon nanotube-metal substrate junction by Atomic Force Microscopy. Nanoscale Research Letters, 2011, 6, 335.	5.7	9
15	Multi-scale investigation of electronic transport and electromechanical behavior in carbon nanotube materials. Composites Part B: Engineering, 2011, 42, 2098-2104.	12.0	5
16	Field emission and material transfer in microswitches electrical contacts. Applied Physics Letters, 2010, 97, .	3.3	37
17	Influence of morphology on the conductance of single-crystal diamond surfaces measured by atomic force microscopy. Journal of Applied Physics, 2009, 106, 054301.	2.5	6
18	Metal-rich Au-silicide nanoparticles for use in nanotechnology. Applied Physics Letters, 2009, 94, .	3.3	27

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19	An Original Apparatus for Endurance Testing of MEMS Electrical Contact Materials., 2009,,.		3
20	Nanocomposite Thin Films for Surface Protection in Electrical Contact Applications. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 358-364.	1.3	4
21	Tribological and electrical study of fluorinated diazonium films as dry lubricants for electrical contacts. Surface and Interface Analysis, 2008, 40, 802-805.	1.8	8
22	Capacitance measurements on small parallel plate capacitors using nanoscale impedance microscopy. Applied Physics Letters, 2007, 90, 043116.	3.3	15
23	Nanocomposite thin films for surface protection in electrical contact applications., 2007,,.		6
24	Local photoconductivity on diamond metal-semiconductor-metal photodetectors measured by conducting probe atomic force microscopy. Diamond and Related Materials, 2007, 16, 1074-1077.	3.9	10
25	Local electrical characterization of Schottky diodes on H-terminated diamond surfaces by conducting probe atomic force microscopy. Diamond and Related Materials, 2006, 15, 618-621.	3.9	5
26	Electrical characterization of Schottky diodes based on boron doped homoepitaxial diamond films by conducting probe atomic force microscopy. Superlattices and Microstructures, 2006, 40, 343-349.	3.1	13
27	Fabrication of high-Tc superconducting hot electron bolometers for terahertz mixer applications. , 2005, , .		10
28	Simultaneous resistance and capacitance cartography by conducting probe atomic force microscopy in contact mode. Applied Physics Letters, 2005, 86, 123103.	3.3	10
29	MgO substrate surface optimization for YBaCuO thin film growth. IEEE Transactions on Applied Superconductivity, 2003, 13, 2721-2724.	1.7	10
30	Correlation between structural and transport properties of silicon thin films deposited at various substrate temperatures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 1048.	1.6	1
31	Copper sample analyzed with an n-doped silicon tip using conducting probe atomic force microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 1929.	1.6	4
32	Influence of microstructure on electrical and microwave properties of YBaCuO thin films. Physica C: Superconductivity and Its Applications, 2002, 372-376, 578-581.	1.2	5
33	Influence of temperature and pressure on the static contact resistance of vacuum heat-treated polyacrylonitrile films. Synthetic Metals, 2001, 118, 121-132.	3.9	5
34	Conducting Probe-Mediated Electrochemical Nanopatterning of Molecular Materials. Journal of the American Chemical Society, 2001, 123, 11486-11487.	13.7	17
35	Electronic and topographic properties of amorphous and microcrystalline silicon thin films. Thin Solid Films, 2001, 383, 57-60.	1.8	47
36	Mesostructure of polymer/carbon black composites observed by conductive probe atomic force microscopy. Carbon, 2001, 39, 314-318.	10.3	40

#	Article	IF	CITATIONS
37	Title is missing!. Journal of Materials Science, 2001, 36, 3355-3363.	3.7	28
38	Conducting probe atomic force microscopy applied to organic conducting blends. Applied Physics Letters, 2001, 79, 2993-2995.	3.3	40
39	Atomic force microscopy with a conducting tip: correlation studies between microstructure and electrical properties of YBaCuO thin films. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1965-1968.	1.2	6
40	Self-assembled monolayers of alkanethiols on nickel surfaces for low level electrical contact applications. IEEE Transactions on Components and Packaging Technologies, 1999, 22, 79-84.	1.3	33
41	Adhesion properties and surface analyses of monolayers ofn-dodecanethiol self-assembled on galvanic gold. Surface and Interface Analysis, 1998, 26, 889-895.	1.8	7
42	Surface modifications of nickel substrates with self-assembled monolayers of alkanethiols for electrical contact applications. Surface and Coatings Technology, 1998, 100-101, 463-468.	4.8	27
43	First observations of YBaCuO thin films by atomic force microscopy with conducting tips. , 1998, 3481, 265.		2
44	Study of the local electrical properties of metal surfaces using an AFM with a conducting probe. IEEE Transactions on Components and Packaging Technologies, 1998, 21, 76-81.	0.7	30
45	Apparent tunnel barrier heights of Ptlr–Au interfaces in relation to the Au surface composition. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1998, 16, 2006.	1.6	2
46	Atomic force microscopy study of the topographic evolution of polyacrylonitrile thin films submitted to a rapid thermal treatment. Thin Solid Films, 1997, 303, 200-206.	1.8	12
47	Imaging the local electrical properties of metal surfaces by atomic force microscopy with conducting probes. Applied Physics Letters, 1996, 69, 1975-1977.	3.3	176
48	Bulk and surface structural properties of Si1â^'xâ^'yGexCy layers processed on Si(001) by pulsed laser induced epitaxy. Applied Surface Science, 1996, 102, 28-32.	6.1	4
49	Elaboration of heat-treated thin films of polyacrylonitrile for connector application. IEEE Transactions on Components and Packaging Technologies, 1995, 18, 364-368.	0.7	6
50	$\tilde{A}$ % laboration et caract $\tilde{A}$ © risation chimique, topographique, tribologique et $\tilde{A}$ © lectrique de films de polyacrylonitrile post-trait $\tilde{A}$ ©s en vue d'applications en connectique. Journal De Physique III, 1995, 5, 661-675.	0.3	0
51	The influence of surface roughness on the capacitance between a sphere and a plane. Journal Physics D: Applied Physics, 1994, 27, 1504-1508.	2.8	52
52	Tribological behaviour of heat-treated thin films of electropolymerized polyacrylonitrile. Surface and Interface Analysis, 1994, 22, 393-397.	1.8	7
53	Electrical properties of very thin heat-treated polyacrylonitrile layers electropolymerized on nickel for contact application. Synthetic Metals, 1994, 62, 207-216.	3.9	18
54	Electrical and physical modeling of contact defects due to fretting. IEEE Transactions on Components and Packaging Technologies, 1994, 17, 134-140.	0.7	9

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55	Constriction resistance of a multispot contact: an improved analytical expression. IEEE Transactions on Components, Hybrids and Manufacturing Technology, 1991, 14, 134-136.	0.4	12
56	A quantitative approach to the effects of surface topography on tunnelling current between two large rough metal bodies. Journal of Physics Condensed Matter, 1991, 3, 4655-4675.	1.8	3
57	Electrical and mechanical contact between rough gold surfaces in air. Journal of Physics Condensed Matter, 1991, 3, 5195-5201.	1.8	26
58	Determination of the effective contact radius between a conducting sphere and a thin metallic film. Journal Physics D: Applied Physics, 1988, 21, 495-502.	2.8	12
59	Experimental and theoretical study of creep effects in electrical contacts. , 0, , .		6
60	Self-assembled monolayers of alcanethiols on nickel surfaces for low level electrical contact applications. , $0$ , , .		5