

H M Pollock

List of Publications by Year in descending order

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39
papers

2,527
citations

279798

23
h-index

377865

34
g-index

40
all docs

40
docs citations

40
times ranked

1435
citing authors

#	ARTICLE	IF	CITATIONS
1	Interpretation of force curves in force microscopy. <i>Nanotechnology</i> , 1993, 4, 64-80.	2.6	292
2	How does a tip tap?. <i>Nanotechnology</i> , 1997, 8, 67-75.	2.6	264
3	Micro-thermal analysis: techniques and applications. <i>Journal Physics D: Applied Physics</i> , 2001, 34, R23-R53.	2.8	253
4	An ultra-low-load penetration hardness tester. <i>Journal of Physics E: Scientific Instruments</i> , 1982, 15, 119-122.	0.7	197
5	Localized thermal analysis using a miniaturized resistive probe. <i>Review of Scientific Instruments</i> , 1996, 67, 4268-4274.	1.3	171
6	Scanning thermal microscopy: Subsurface imaging, thermal mapping of polymer blends, and localized calorimetry. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1996, 14, 1486.	1.6	128
7	Sub-surface imaging by scanning thermal microscopy. <i>Measurement Science and Technology</i> , 1996, 7, 142-150.	2.6	118
8	Photothermal FT-IR Spectroscopy: A Step towards FT-IR Microscopy at a Resolution Better Than the Diffraction Limit. <i>Applied Spectroscopy</i> , 1999, 53, 810-815.	2.2	117
9	Micro-thermal analysis: scanning thermal microscopy and localised thermal analysis. <i>International Journal of Pharmaceutics</i> , 1999, 192, 85-96.	5.2	110
10	Work-function anisotropies as an origin of long-range surface forces. <i>Physical Review Letters</i> , 1992, 69, 144-147.	7.8	91
11	The force of adhesion between solid surfaces in contact. <i>Applied Physics Letters</i> , 1978, 33, 798-799.	3.3	69
12	Highly localized thermal, mechanical, and spectroscopic characterization of polymers using miniaturized thermal probes. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 1322.	1.6	64
13	Contact adhesion between solids in vacuum. I. Single-asperity experiments. <i>Journal Physics D: Applied Physics</i> , 1977, 10, 127-138.	2.8	62
14	Micron-scale indentation of amorphous and drawn PET surfaces. <i>Journal of Materials Science</i> , 1990, 25, 1444-1454.	3.7	60
15	Contact adhesion between solids in vacuum. II. Deformation and interfacial energy. <i>Journal Physics D: Applied Physics</i> , 1978, 11, 39-54.	2.8	55
16	Localized photothermal infrared spectroscopy using a proximal probe. <i>Journal of Applied Physics</i> , 2001, 90, 5159-5165.	2.5	47
17	Study of the correlation between hardness and structure of nitrogen-implanted titanium surfaces. <i>Journal of Materials Science</i> , 1987, 22, 1087-1096.	3.7	41
18	New Adventures in Thermal Analysis. <i>Magyar Árvad Kémlemezények</i> , 2000, 60, 723-733.	1.4	37

#	ARTICLE	IF	CITATIONS
19	Progress in near-field photothermal infra-red microspectroscopy. <i>Journal of Microscopy</i> , 2004, 213, 129-134.	1.8	35
20	Two new microscopical variants of thermomechanical modulation: scanning thermal expansion microscopy and dynamic localized thermomechanical analysis. <i>Journal of Microscopy</i> , 2000, 199, 180-190.	1.8	32
21	Model for mechanical properties nanoprobes. <i>Journal of Materials Research</i> , 2000, 15, 2006-2014.	2.6	32
22	Near-field photothermal Fourier transform infrared spectroscopy using synchrotron radiation. <i>Measurement Science and Technology</i> , 2002, 13, 1217-1222.	2.6	27
23	Adhesion energies at a metal interface: the effects of surface treatments and ion implantation. <i>Journal Physics D: Applied Physics</i> , 1980, 13, 1761-1784.	2.8	25
24	Interfaces in Polymeric Systems as Studied by C.A.S.M. – A New Combination of Localised Calorimetric Analysis with Scanning Microscopy. <i>Journal of Adhesion</i> , 1998, 67, 217-234.	3.0	25
25	Modulated differential scanning calorimetry. <i>Journal of Theoretical Biology</i> , 1997, 49, 209-218.	1.7	23
26	Title is missing!. <i>Magyar Árvad Kzlemnyek</i> , 1999, 56, 991-1004.	1.4	21
27	Surface Forces and Adhesion. , 1992, , 77-94.		21
28	Attractive Forces Between Micron-Sized Particles: A Patch Charge Model. <i>Journal of Adhesion</i> , 1995, 51, 71-86.	3.0	20
29	Localised Evolved Gas Analysis by Micro-thermal Analysis. <i>Magyar Árvad Kzlemnyek</i> , 2001, 64, 309-314.	1.4	20
30	Growth of Polycrystalline Silicon Films: Grain Size. <i>Journal of the Electrochemical Society</i> , 1973, 120, 1586.	2.9	16
31	Characterising polymer surfaces – nanoindentation, surface force data, calorimetric microscopy. <i>Physica Scripta</i> , 1994, T55, 199-205.	2.5	14
32	Fields of plastic deformation in indented bilayers: comparison between kinematic calculations and experimental data obtained at scales ranging from one centimetre to ten nanometres. <i>Journal Physics D: Applied Physics</i> , 1989, 22, 1443-1450.	2.8	13
33	What Part do Adhesion and Deformation Play in Fine-Scale Static and Sliding Contact?. <i>Materials Research Society Symposia Proceedings</i> , 1988, 140, 51.	0.1	11
34	Burnham, Colton, and Pollock reply. <i>Physical Review Letters</i> , 1993, 70, 247-247.	7.8	11
35	Thermal analysis for the 21st century. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 50, 8-8.	2.4	3
36	Deformation in glassy polymers. <i>Journal of Applied Polymer Science</i> , 1996, 59, 173-178.	2.6	2

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37	Novel aspects of micro-thermal analysis of polymer blends. Microscopy and Microanalysis, 1999, 5, 980-981.	0.4	0
38	A High Resolution Multiple Analysis Approach Using Near-Field Thermal Probes. AIP Conference Proceedings, 2003, , .	0.4	0
39	Scanning thermal microscopy (SThM) of polymer blends: Phase separation, localised calorimetric analysis. Proceedings Annual Meeting Electron Microscopy Society of America, 1996, 54, 204-205.	0.0	0