H M Pollock

List of Publications by Year
in descending order

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	Thermal analysis for the 21st century. Journal of Pharmacy and Pharmacology, 2011, 50, 8-8.	2.4	3
2	Progress in near-field photothermal infra-red microspectroscopy. Journal of Microscopy, 2004, 213, 129-134.	1.8	35
3	A High Resolution Multiple Analysis Approach Using Near-Field Thermal Probes. AIP Conference Proceedings, 2003, , .	0.4	0
4	Near-field photothermal Fourier transform infrared spectroscopy using synchrotron radiation. Measurement Science and Technology, 2002, 13, 1217-1222.	2.6	27
5	Micro-thermal analysis: techniques and applications. Journal Physics D: Applied Physics, 2001, 34, R23-R53.	2.8	253
6	Localised Evolved Gas Analysis by Micro-thermal Analysis. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2001, 64, 309-314.	1.4	20
7	Localized photothermal infrared spectroscopy using a proximal probe. Journal of Applied Physics, 2001, 90, 5159-5165.	2.5	47
8	Two new microscopical variants of thermomechanical modulation: scanning thermal expansion microscopy and dynamic localized thermomechanical analysis. Journal of Microscopy, 2000, 199, 180-190.	1.8	32
9	New Adventures in Thermal Analysis. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2000, 60, 723-733.	1.4	37
10	Highly localized thermal, mechanical, and spectroscopic characterization of polymers using miniaturized thermal probes. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 1322.	1.6	64
11	Model for mechanical properties nanoprobes. Journal of Materials Research, 2000, 15, 2006-2014.	2.6	32
12	Novel aspects of micro-thermal analysis of polymer blends. Microscopy and Microanalysis, 1999, 5, 980-981.	0.4	0
13	Micro-thermal analysis: scanning thermal microscopy and localised thermal analysis. International Journal of Pharmaceutics, 1999, 192, 85-96.	5.2	110
14	Title is missing!. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1999, 56, 991-1004.	1.4	21
15	Photothermal FT-IR Spectroscopy: A Step towards FT-IR Microscopy at a Resolution Better Than the Diffraction Limit. Applied Spectroscopy, 1999, 53, 810-815.	2.2	117
16	Interfaces in Polymeric Systems as Studied by C.A.S.M.â€"A New Combination of Localised Calorimetric Analysis with Scanning Microscopy. Journal of Adhesion, 1998, 67, 217-234.	3.0	25
17	How does a tip tap?. Nanotechnology, 1997, 8, 67-75.	2.6	264
18	Modulated differential scanning calorimetry. Journal of Theoretical Biology, 1997, 49, 209-218.	1.7	23

#	Article	IF	Citations
19	Sub-surface imaging by scanning thermal microscopy. Measurement Science and Technology, 1996, 7, 142-150.	2.6	118
20	Localized thermal analysis using a miniaturized resistive probe. Review of Scientific Instruments, 1996, 67, 4268-4274.	1.3	171
21	Deformation in glassy polymers. Journal of Applied Polymer Science, 1996, 59, 173-178.	2.6	2
22	Scanning thermal microscopy: Subsurface imaging, thermal mapping of polymer blends, and localized calorimetry. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 1486.	1.6	128
23	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
24	Attractive Forces Between Micron-Sized Particles: A Patch Charge Model. Journal of Adhesion, 1995, 51, 71-86.	3.0	20
25	Characterising polymer surfacesâ€"nanoindentation, surface force data, calorimetric microscopy. Physica Scripta, 1994, T55, 199-205.	2.5	14
26	Burnham, Colton, and Pollock reply. Physical Review Letters, 1993, 70, 247-247.	7.8	11
27	Interpretation of force curves in force microscopy. Nanotechnology, 1993, 4, 64-80.	2.6	292
28	Work-function anisotropies as an origin of long-range surface forces. Physical Review Letters, 1992, 69, 144-147.	7.8	91
29	Surface Forces and Adhesion. , 1992, , 77-94.		21
30	Micron-scale indentation of amorphous and drawn PET surfaces. Journal of Materials Science, 1990, 25, 1444-1454.	3.7	60
31	Fields of plastic deformation in indented bilayers: comparison between kinematic calculations and experimental data obtained at scales ranging from one centimetre to ten nanometres. Journal Physics D: Applied Physics, 1989, 22, 1443-1450.	2.8	13
32	What Part do Adhesion and Deformation Play in Fine-Scale Static and Sliding Contact?. Materials Research Society Symposia Proceedings, 1988, 140, 51.	0.1	11
33	Study of the correlation between hardness and structure of nitrogen-implanted titanium surfaces. Journal of Materials Science, 1987, 22, 1087-1096.	3.7	41
34	An ultra-low-load penetration hardness tester. Journal of Physics E: Scientific Instruments, 1982, 15, 119-122.	0.7	197
35	Adhesion energies at a metal interface: the effects of surface treatments and ion implantation. Journal Physics D: Applied Physics, 1980, 13, 1761-1784.	2.8	25
36	The force of adhesion between solid surfaces in contact. Applied Physics Letters, 1978, 33, 798-799.	3.3	69

#	Article	IF	Citations
37	Contact adhesion between solids in vacuum. II. Deformation and interfacial energy. Journal Physics D: Applied Physics, 1978, 11, 39-54.	2.8	55
38	Contact adhesion between solids in vacuum. I. Single-asperity experiments. Journal Physics D: Applied Physics, 1977, 10, 127-138.	2.8	62
39	Growth of Polycrystalline Silicon Films: Grain Size. Journal of the Electrochemical Society, 1973, 120, 1586.	2.9	16