

# Pierre L Martin-Hirsch

## List of Publications by Year in descending order

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Version: 2024-02-01

108  
papers

6,781  
citations

136950

32  
h-index

60623

81  
g-index

110  
all docs

110  
docs citations

110  
times ranked

7711  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Fourier transform IR spectroscopy to analyze biological materials. <i>Nature Protocols</i> , 2014, 9, 1771-1791.	12.0	1,385
2	Using Raman spectroscopy to characterize biological materials. <i>Nature Protocols</i> , 2016, 11, 664-687.	12.0	833
3	Liquid Compared With Conventional Cervical Cytology. <i>Obstetrics and Gynecology</i> , 2008, 111, 167-177.	2.4	363
4	Virologic Versus Cytologic Triage of Women With Equivocal Pap Smears: A Meta-analysis of the Accuracy To Detect High-Grade Intraepithelial Neoplasia. <i>Journal of the National Cancer Institute</i> , 2004, 96, 280-293.	6.3	338
5	Distinguishing cell types or populations based on the computational analysis of their infrared spectra. <i>Nature Protocols</i> , 2010, 5, 1748-1760.	12.0	294
6	Risk factors for endometrial cancer: An umbrella review of the literature. <i>International Journal of Cancer</i> , 2019, 145, 1719-1730.	5.1	290
7	Diagnostic accuracy of human papillomavirus testing in primary cervical screening: A systematic review and meta-analysis of non-randomized studies. <i>Gynecologic Oncology</i> , 2007, 104, 232-246.	1.4	217
8	Fourier-transform infrared spectroscopy coupled with a classification machine for the analysis of blood plasma or serum: a novel diagnostic approach for ovarian cancer. <i>Analyst, The</i> , 2013, 138, 3917.	3.5	186
9	Biospectroscopy to metabolically profile biomolecular structure: a multistage approach linking computational analysis with biomarkers. <i>Journal of Proteome Research</i> , 2011, 10, 1437-1448.	3.7	163
10	The role of HPV DNA testing in the follow-up period after treatment for CIN: a systematic review of the literature. <i>Cancer Treatment Reviews</i> , 2004, 30, 205-211.	7.7	148
11	Distribution and Clinical Significance of Heparan Sulfate Proteoglycans in Ovarian Cancer. <i>Clinical Cancer Research</i> , 2004, 10, 5178-5186.	7.0	135
12	IR microspectroscopy: potential applications in cervical cancer screening. <i>Cancer Letters</i> , 2007, 246, 1-11.	7.2	128
13	Differential diagnosis of Alzheimer's disease using spectrochemical analysis of blood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7929-E7938.	7.1	125
14	CYP1B1 and hormone-induced cancer. <i>Cancer Letters</i> , 2012, 324, 13-30.	7.2	109
15	Fourier Transform Infrared Microspectroscopy Identifies Symmetric PO <sub>2</sub> Modifications as a Marker of the Putative Stem Cell Region of Human Intestinal Crypts. <i>Stem Cells</i> , 2008, 26, 108-118.	3.2	105
16	Triage of women with equivocal or low-grade cervical cytology results: a meta-analysis of the HPV test positivity rate. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 648-659.	3.6	100
17	Aluminium foil as a potential substrate for ATR-FTIR, transfection FTIR or Raman spectrochemical analysis of biological specimens. <i>Analytical Methods</i> , 2016, 8, 481-487.	2.7	99
18	Standardization of complex biologically derived spectrochemical datasets. <i>Nature Protocols</i> , 2019, 14, 1546-1577.	12.0	96

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19	Oestrogen receptor splice variants in the pathogenesis of disease. <i>Cancer Letters</i> , 2010, 288, 133-148.	7.2	95
20	ATR-FTIR spectroscopy coupled with chemometric analysis discriminates normal, borderline and malignant ovarian tissue: classifying subtypes of human cancer. <i>Analyst, The</i> , 2016, 141, 585-594.	3.5	88
21	Vibrational biospectroscopy coupled with multivariate analysis extracts potentially diagnostic features in blood plasma/serum of ovarian cancer patients. <i>Journal of Biophotonics</i> , 2014, 7, 200-209.	2.3	81
22	ATR microspectroscopy with multivariate analysis segregates grades of exfoliative cervical cytology. <i>Biochemical and Biophysical Research Communications</i> , 2007, 352, 213-219.	2.1	71
23	Raman Spectroscopy to Diagnose Alzheimer's Disease and Dementia with Lewy Bodies in Blood. <i>ACS Chemical Neuroscience</i> , 2018, 9, 2786-2794.	3.5	62
24	Tracking the cell hierarchy in the human intestine using biochemical signatures derived by mid-infrared microspectroscopy. <i>Stem Cell Research</i> , 2009, 3, 15-27.	0.7	60
25	Potential of mid-infrared spectroscopy as a non-invasive diagnostic test in urine for endometrial or ovarian cancer. <i>Analyst, The</i> , 2018, 143, 3156-3163.	3.5	59
26	Raman spectroscopic techniques to detect ovarian cancer biomarkers in blood plasma. <i>Talanta</i> , 2018, 189, 281-288.	5.5	50
27	High contrast images of uterine tissue derived using Raman microspectroscopy with the empty modelling approach of multivariate curve resolution-alternating least squares. <i>Analyst, The</i> , 2011, 136, 4950.	3.5	49
28	Tamoxifen: Important considerations of a multi-functional compound with organ-specific properties. <i>Cancer Treatment Reviews</i> , 2007, 33, 91-100.	7.7	47
29	Conservative surgical methods for FIGO stage IA2 squamous cervical carcinoma and their role in preserving women's fertility. <i>Gynecologic Oncology</i> , 2004, 93, 469-473.	1.4	46
30	Segregation of ovarian cancer stage exploiting spectral biomarkers derived from blood plasma or serum analysis: ATR-FTIR spectroscopy coupled with variable selection methods. <i>Biotechnology Progress</i> , 2015, 31, 832-839.	2.6	45
31	Histology Verification Demonstrates That Biospectroscopy Analysis of Cervical Cytology Identifies Underlying Disease More Accurately than Conventional Screening: Removing the Confounder of Discordance. <i>PLoS ONE</i> , 2014, 9, e82416.	2.5	42
32	Biospectroscopy insights into the multi-stage process of cervical cancer development: probing for spectral biomarkers in cytology to distinguish grades. <i>Analyst, The</i> , 2013, 138, 3909.	3.5	35
33	Derivation of a subtype-specific biochemical signature of endometrial carcinoma using synchrotron-based Fourier-transform infrared microspectroscopy. <i>Cancer Letters</i> , 2009, 274, 208-217.	7.2	34
34	Fourier-transform infrared spectroscopy discriminates a spectral signature of endometriosis independent of inter-individual variation. <i>Analyst, The</i> , 2011, 136, 2047.	3.5	32
35	Discrimination of Base Differences in Oligonucleotides Using Mid-Infrared Spectroscopy and Multivariate Analysis. <i>Analytical Chemistry</i> , 2009, 81, 5314-5319.	6.5	31
36	The evolving role of MUC16 (CA125) in the transformation of ovarian cells and the progression of neoplasia. <i>Carcinogenesis</i> , 2021, 42, 327-343.	2.8	31

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37	Microspectroscopy of spectral biomarkers associated with human corneal stem cells. <i>Molecular Vision</i> , 2010, 16, 359-68.	1.1	31
38	Robust classification of low-grade cervical cytology following analysis with ATR-FTIR spectroscopy and subsequent application of self-learning classifier eClass. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2191-2201.	3.7	30
39	Gold nanoparticles as a substrate in bio-analytical near-infrared surface-enhanced Raman spectroscopy. <i>Analyst, The</i> , 2015, 140, 3090-3097.	3.5	30
40	A Single-Arm, Proof-Of-Concept Trial of Lopimune (Lopinavir/Ritonavir) as a Treatment for HPV-Related Pre-Invasive Cervical Disease. <i>PLoS ONE</i> , 2016, 11, e0147917.	2.5	28
41	Elevated expression of CYP1A1 and $\beta$ -SYNUCLEIN in human ectopic (ovarian) endometriosis compared with eutopic endometrium. <i>Molecular Human Reproduction</i> , 2008, 14, 655-663.	2.8	27
42	Blood-based near-infrared spectroscopy for the rapid low-cost detection of Alzheimer's disease. <i>Analyst, The</i> , 2018, 143, 5959-5964.	3.5	26
43	Detection of ovarian cancer ( $\beta$ neo-adjuvant chemotherapy effects) via ATR-FTIR spectroscopy: comparative analysis of blood and urine biofluids in a large patient cohort. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5095-5107.	3.7	25
44	A spectral phenotype of oncogenic human papillomavirus-infected exfoliative cervical cytology distinguishes women based on age. <i>Clinica Chimica Acta</i> , 2010, 411, 1027-1033.	1.1	24
45	An overview of early investigational drugs for the treatment of human papilloma virus infection and associated dysplasia. <i>Expert Opinion on Investigational Drugs</i> , 2015, 24, 1529-1537.	4.1	23
46	Progress and Challenges in the Diagnosis of Dementia: A Critical Review. <i>ACS Chemical Neuroscience</i> , 2018, 9, 446-461.	3.5	22
47	Synchrotron- and focal plane array-based Fourier-transform infrared spectroscopy differentiates the basalis and functionalis epithelial endometrial regions and identifies putative stem cell regions of human endometrial glands. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 4541-4554.	3.7	22
48	A three-dimensional principal component analysis approach for exploratory analysis of hyperspectral data: identification of ovarian cancer samples based on Raman microspectroscopy imaging of blood plasma. <i>Analyst, The</i> , 2019, 144, 2312-2319.	3.5	22
49	Immediate referral to colposcopy versus cytological surveillance for low-grade cervical cytological abnormalities in the absence of HPV test: A systematic review and a meta-analysis of the literature. <i>International Journal of Cancer</i> , 2017, 140, 216-223.	5.1	21
50	Quantifiable mRNA transcripts for tamoxifen-metabolising enzymes in human endometrium. <i>Toxicology</i> , 2008, 249, 85-90.	4.2	20
51	Exploiting biospectroscopy as a novel screening tool for cervical cancer: towards a framework to validate its accuracy in a routine clinical setting. <i>Bioanalysis</i> , 2013, 5, 2697-2711.	1.5	20
52	Cost-Consequence Analysis Alongside a Randomised Controlled Trial of Hospital Versus Telephone Follow-Up after Treatment for Endometrial Cancer. <i>Applied Health Economics and Health Policy</i> , 2018, 16, 415-427.	2.1	20
53	A comparative analysis of different biofluids towards ovarian cancer diagnosis using Raman microspectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 911-922.	3.7	18
54	Extracting biomarkers of commitment to cancer development: potential role of vibrational spectroscopy in systems biology. <i>Expert Review of Molecular Diagnostics</i> , 2015, 15, 693-713.	3.1	17

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55	Exploring the acceptability and feasibility of patient-initiated follow-up for women treated for stage I endometrial cancer. <i>European Journal of Oncology Nursing</i> , 2020, 44, 101704.	2.1	17
56	Infrared Spectral Analysis of MCF-7 Cells Treated with Serum-Lipid Extracts Segregates Predominantly Brominated Flame Retardant-Exposed Subjects from Those with Mainly Organochlorine Exposures. <i>Environmental Science &amp; Technology</i> , 2007, 41, 5915-5922.	10.0	16
57	A biospectroscopic interrogation of fine needle aspirates points towards segregation between graded categories: an initial study towards diagnostic screening. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 957-967.	3.7	16
58	Aluminium foil as an alternative substrate for the spectroscopic interrogation of endometrial cancer. <i>Journal of Biophotonics</i> , 2018, 11, e201700372.	2.3	16
59	Melanins as Sustainable Resources for Advanced Biotechnological Applications. <i>Global Challenges</i> , 2021, 5, 2000102.	3.6	16
60	Bleeding after loop electrosurgical excision procedure performed in either the follicular or luteal phase of the menstrual cycle: a randomized trial. <i>Obstetrics and Gynecology</i> , 2002, 99, 997-1000.	2.4	15
61	Re: Have We Resolved How To Triage Equivocal Cervical Cytology?. <i>Journal of the National Cancer Institute</i> , 2004, 96, 1401-1402.	6.3	14
62	Specialist oncological surgery for removal of the ovaries and fallopian tubes in <i>BRCA1</i> and <i>BRCA2</i> pathogenic variant carriers may reduce primary peritoneal cancer risk to very low levels. <i>International Journal of Cancer</i> , 2021, 148, 1155-1163.	5.1	13
63	Non-contact micro-cantilevers detect photothermally induced vibrations that can segregate different categories of exfoliative cervical cytology. <i>Journal of Proteomics</i> , 2007, 70, 675-677.	2.4	11
64	High AGR2 protein is a feature of low grade endometrial cancer cells. <i>Oncotarget</i> , 2018, 9, 31459-31472.	1.8	11
65	An analysis of benign human prostate offers insights into the mechanism of apocrine secretion and the origin of prostasomes. <i>Scientific Reports</i> , 2019, 9, 4582.	3.3	11
66	Diagnostic Accuracy of FEC-PET/CT, FDG-PET/CT, and Diffusion-Weighted MRI in Detection of Nodal Metastases in Surgically Treated Endometrial and Cervical Carcinoma. <i>Clinical Cancer Research</i> , 2021, 27, 6457-6466.	7.0	11
67	Mid-infrared spectral classification of endometrial cancer compared to benign controls in serum or plasma samples. <i>Analyst, The</i> , 2021, 146, 5631-5642.	3.5	11
68	Endometrial cancer patients' preferences for follow-up after treatment: A cross-sectional survey. <i>European Journal of Oncology Nursing</i> , 2020, 45, 101722.	2.1	10
69	Photodynamic Therapy of Lower Genital Tract Neoplasia. <i>Gynecologic Oncology</i> , 2002, 84, 187-188.	1.4	9
70	Cytochrome P1B1 (CYP1B1) polymorphisms and ovarian cancer risk: A meta-analysis. <i>Toxicology</i> , 2012, 302, 157-162.	4.2	9
71	Comparative fertility and pregnancy outcomes after local treatment for cervical intraepithelial neoplasia and stage 1a1 cervical cancer: protocol for a systematic review and network meta-analysis from the CIRCLE group. <i>BMJ Open</i> , 2019, 9, e028009.	1.9	9
72	A three-dimensional discriminant analysis approach for hyperspectral images. <i>Analyst, The</i> , 2020, 145, 5915-5924.	3.5	9

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73	Morbidity after local excision of the transformation zone for cervical intra-epithelial neoplasia and early cervical cancer. <i>Best Practice and Research in Clinical Obstetrics and Gynaecology</i> , 2021, 75, 10-22.	2.8	9
74	Determination Using Synchrotron Radiation-Based Fourier Transform Infrared Microspectroscopy of Putative Stem Cells in Human Adenocarcinoma of the Intestine: Corresponding Benign Tissue as a Template. <i>Applied Spectroscopy</i> , 2014, 68, 812-822.	2.2	7
75	Underlying role of mitochondrial mutagenesis in the pathogenesis of a disease and current approaches for translational research. <i>Mutagenesis</i> , 2017, 32, gew058.	2.6	6
76	Raman spectroscopy of blood and urine liquid biopsies for ovarian cancer diagnosis: identification of chemotherapy effects. <i>Journal of Biophotonics</i> , 2021, 14, e202100195.	2.3	6
77	Expression of ER $\alpha$ , its ER $\alpha$ 3 Splice Variant and $\beta$ -SYNUCLEIN in Ovarian Cancer: A Pilot Study. <i>British Journal of Medicine and Medical Research</i> , 2011, 1, 430-444.	0.2	5
78	Are new technologies translatable to point-of-care testing?. <i>Lancet, The</i> , 2017, 390, 2765-2766.	13.7	4
79	Fertility-sparing Surgery for Presumed Early-stage Invasive Cervical Cancer: A Survey of Practice in the United Kingdom. <i>Anticancer Research</i> , 2018, 38, 3641-3646.	1.1	3
80	Comparative efficacy and complication rates after local treatment for cervical intraepithelial neoplasia and stage 1a1 cervical cancer: protocol for a systematic review and network meta-analysis from the CIRCLE Group. <i>BMJ Open</i> , 2019, 9, e028008.	1.9	3
81	Additive manufacturing of multielectrode arrays for biotechnological applications. <i>Materials Advances</i> , 2021, 2, 1600-1605.	5.4	3
82	Placental and fetal malignancies. , 0, , 187-204.		2
83	The haematological malignancies. , 0, , 243-256.		2
84	Investigation and management of postcoital bleeding. <i>The Obstetrician and Gynaecologist</i> , 0, , .	0.4	2
85	Epidemiology of cancer in women during reproductive life. , 0, , 3-12.		1
86	Fertility-preserving surgery in women with cancer of the cervix. , 0, , 87-100.		1
87	Cervical and endometrial cancer in relation to pregnancy. , 0, , 133-144.		1
88	Multidisciplinary care. , 2008, , 267-278.		1
89	Consensus views arising from the 55th Study Group: Cancer and Reproductive Health. , 0, , 281-284.		1
90	Spatial and temporal age-related spectral alterations in benign human breast tissue. <i>Journal of Molecular Structure</i> , 2016, 1106, 390-398.	3.6	1

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91	Need for early, minimally invasive cancer diagnosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4752-4752.	7.1	1
92	Radiotherapy and cancer. , 0, , 55-60.		0
93	Assisted reproductive technology for preserving fertility in women with cancer. , 0, , 63-72.		0
94	Fertility after cancer therapy. , 0, , 73-86.		0
95	Gonadal function and fertility issues in children and young people treated for cancer. , 0, , 101-108.		0
96	Management of cervical intraepithelial neoplasia during pregnancy. , 0, , 111-114.		0
97	Impact of LLETZ on subsequent pregnancies. , 0, , 115-124.		0
98	Ovarian masses and malignancies. , 0, , 125-132.		0
99	Imaging techniques. , 0, , 147-154.		0
100	Serum markers for gynaecological cancer in the reproductive years. , 0, , 155-178.		0
101	Diagnostic dilemmas in cellular pathology. , 0, , 179-184.		0
102	Gestational trophoblastic neoplasia. , 0, , 205-226.		0
103	Pregnancy and breast cancer. , 0, , 229-242.		0
104	Melanoma and reproductive health. , 0, , 257-264.		0
105	Chemotherapy in the treatment of pregnant women with cancer. , 0, , 23-54.		0
106	Cancer genetics and reproduction. , 0, , 13-22.		0
107	Stimulated by our mentors. BJOG: an International Journal of Obstetrics and Gynaecology, 2014, 121, 1739-1739.	2.3	0
108	Visceral injury at gynaecological surgery: demonstration of reasonable care affords acceptable defence. BJOG: an International Journal of Obstetrics and Gynaecology, 2017, 124, 1557-1557.	2.3	0