

Dar-Ren Chen

List of Publications by Year in descending order

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102
papers

3,444
citations

147801

31
h-index

155660

55
g-index

103
all docs

103
docs citations

103
times ranked

3063
citing authors

#	ARTICLE	IF	CITATIONS
1	Quercetin-mediated cell cycle arrest and apoptosis involving activation of a caspase cascade through the mitochondrial pathway in human breast cancer MCF-7 cells. Archives of Pharmacal Research, 2010, 33, 1181-1191.	6.3	242
2	Automatic ultrasound segmentation and morphology based diagnosis of solid breast tumors. Breast Cancer Research and Treatment, 2005, 89, 179-185.	2.5	188
3	Diagnosis of breast tumors with sonographic texture analysis using wavelet transform and neural networks. Ultrasound in Medicine and Biology, 2002, 28, 1301-1310.	1.5	180
4	Computer-aided Diagnosis Applied to US of Solid Breast Nodules by Using Neural Networks. Radiology, 1999, 213, 407-412.	7.3	177
5	Watershed segmentation for breast tumor in 2-D sonography. Ultrasound in Medicine and Biology, 2004, 30, 625-632.	1.5	164
6	Breast cancer diagnosis using self-organizing map for sonography. Ultrasound in Medicine and Biology, 2000, 26, 405-411.	1.5	158
7	Improvement in breast tumor discrimination by support vector machines and speckle-emphasis texture analysis. Ultrasound in Medicine and Biology, 2003, 29, 679-686.	1.5	123
8	Support Vector Machines for Diagnosis of Breast Tumors on US Images. Academic Radiology, 2003, 10, 189-197.	2.5	104
9	Data mining with decision trees for diagnosis of breast tumor in medical ultrasonic images. Breast Cancer Research and Treatment, 2001, 66, 51-57.	2.5	98
10	Diagnosis of breast tumors with ultrasonic texture analysis using support vector machines. Neural Computing and Applications, 2006, 15, 164-169.	5.6	97
11	Tamper Detection and Recovery for Medical Images Using Near-lossless Information Hiding Technique. Journal of Digital Imaging, 2008, 21, 59-76.	2.9	89
12	3-D breast ultrasound segmentation using active contour model. Ultrasound in Medicine and Biology, 2003, 29, 1017-1026.	1.5	85
13	Luteolin suppresses androgen receptor-positive triple-negative breast cancer cell proliferation and metastasis by epigenetic regulation of MMP9 expression via the AKT/mTOR signaling pathway. Phytomedicine, 2021, 81, 153437.	5.3	76
14	Robotic Nipple-Sparing Mastectomy and Immediate Breast Reconstruction with Gel Implant: Technique, Preliminary Results and Patient-Reported Cosmetic Outcome. Annals of Surgical Oncology, 2019, 26, 42-52.	1.5	63
15	Mesenchymal Stem Cell-Induced Doxorubicin Resistance in Triple Negative Breast Cancer. BioMed Research International, 2014, 2014, 1-10.	1.9	62
16	Computer-Aided Diagnosis of Breast Tumors with Different US Systems. Academic Radiology, 2002, 9, 793-799.	2.5	56
17	Segmentation of breast tumor in three-dimensional ultrasound images using three-dimensional discrete active contour model. Ultrasound in Medicine and Biology, 2003, 29, 1571-1581.	1.5	56
18	Support vector machines in sonography. Clinical Imaging, 2005, 29, 179-184.	1.5	56

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19	Level Set Contouring for Breast Tumor in Sonography. <i>Journal of Digital Imaging</i> , 2007, 20, 238-247.	2.9	52
20	Retrieval technique for the diagnosis of solid breast tumors on sonogram. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 903-909.	1.5	49
21	Use of the bootstrap technique with small training sets for computer-aided diagnosis in breast ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 897-902.	1.5	47
22	The learning curve of robotic nipple sparing mastectomy for breast cancer: An analysis of consecutive 39 procedures with cumulative sum plot. <i>European Journal of Surgical Oncology</i> , 2019, 45, 125-133.	1.0	47
23	Texture analysis of breast tumors on sonograms. <i>Seminars in Ultrasound, CT and MRI</i> , 2000, 21, 308-316.	1.5	46
24	Characterization of Spiculation on Ultrasound Lesions. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 111-121.	8.9	43
25	Robotic versus conventional nipple sparing mastectomy and immediate gel implant breast reconstruction in the management of breast cancer- A case control comparison study with analysis of clinical outcome, medical cost, and patient-reported cosmetic results. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2020, 73, 1514-1525.	1.0	41
26	Classification of malignant tumors in breast ultrasound using a pretrained deep residual network model and support vector machine. <i>Computerized Medical Imaging and Graphics</i> , 2021, 87, 101829.	5.8	41
27	Computer-aided diagnosis with textural features for breast lesions in sonograms. <i>Computerized Medical Imaging and Graphics</i> , 2011, 35, 220-226.	5.8	40
28	Solid Breast Masses: Neural Network Analysis of Vascular Features at Three-dimensional Power Doppler US for Benign or Malignant Classification. <i>Radiology</i> , 2007, 243, 56-62.	7.3	35
29	Influences of apolipoprotein E polymorphism on the risk for breast cancer and HER2/neu status in Taiwan. <i>Breast Cancer Research and Treatment</i> , 2005, 90, 257-261.	2.5	34
30	Triple negative breast carcinoma is a prognostic factor in Taiwanese women. <i>BMC Cancer</i> , 2009, 9, 192.	2.6	34
31	Computer-Aided Diagnosis for 3-Dimensional Breast Ultrasonography. <i>Archives of Surgery</i> , 2003, 138, 296.	2.2	33
32	Peri-foci adipose-derived stem cells promote chemoresistance in breast cancer. <i>Stem Cell Research and Therapy</i> , 2017, 8, 177.	5.5	31
33	Visfatin Mediates Malignant Behaviors through Adipose-Derived Stem Cells Intermediary in Breast Cancer. <i>Cancers</i> , 2020, 12, 29.	3.7	31
34	Robotic nipple sparing mastectomy and immediate breast reconstruction with robotic latissimus dorsi flap harvest – Technique and preliminary results. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2018, 71, e59-e61.	1.0	29
35	Indocyanine green fluorescence method for sentinel lymph node biopsy in breast cancer. <i>Asian Journal of Surgery</i> , 2020, 43, 1149-1153.	0.4	28
36	Signet-ring cell carcinoma of the breast. <i>Pathology International</i> , 2000, 50, 67-70.	1.3	27

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37	Comparative Analysis of Logistic Regression, Support Vector Machine and Artificial Neural Network for the Differential Diagnosis of Benign and Malignant Solid Breast Tumors by the Use of Three-Dimensional Power Doppler Imaging. Korean Journal of Radiology, 2009, 10, 464.	3.4	24
38	Computer-aided Diagnosis in Breast Ultrasound. Journal of Medical Ultrasound, 2008, 16, 46-56.	0.4	23
39	Differentiation of Serum Levels of Trace Elements in Normal and Malignant Breast Patients. Biological Trace Element Research, 2006, 113, 9-18.	3.5	23
40	Does Breast Magnetic Resonance Imaging Combined With Conventional Imaging Modalities Decrease the Rates of Surgical Margin Involvement and Reoperation?. Medicine (United States), 2016, 95, e3810.	1.0	22
41	Robotic Nipple-sparing Mastectomy and Immediate Breast Reconstruction with Gel Implant. Plastic and Reconstructive Surgery - Global Open, 2018, 6, e1828.	0.6	22
42	Characterization of Benign and Malignant Solid Breast Masses: Harmonic Versus Nonharmonic 3D Power Doppler Imaging. Ultrasound in Medicine and Biology, 2009, 35, 353-359.	1.5	20
43	Classification of malignant tumours in breast ultrasound using unsupervised machine learning approaches. Scientific Reports, 2021, 11, 1418.	3.3	20
44	3-D ultrasound texture classification using run difference matrix. Ultrasound in Medicine and Biology, 2005, 31, 763-770.	1.5	19
45	Investigation of the cumulative tissue doses of naphthoquinones in human serum using protein adducts as biomarker of exposure. Chemico-Biological Interactions, 2009, 181, 107-114.	4.0	19
46	Circulating leptin and adiponectin are associated with insulin resistance in healthy postmenopausal women with hot flashes. PLoS ONE, 2017, 12, e0176430.	2.5	19
47	Minimal Access (Endoscopic and Robotic) Breast Surgery in the Surgical Treatment of Early Breast Cancer—Trend and Clinical Outcome From a Single-Surgeon Experience Over 10 Years. Frontiers in Oncology, 2021, 11, 739144.	2.8	19
48	Technique for single axillary incision robotic assisted quadrantectomy and immediate partial breast reconstruction with robotic latissimus dorsi flap harvest for breast cancer. Medicine (United States), 2018, 97, e150297.	1.6	18
49	Single-Port Three-Dimensional (3D) Videoscope-Assisted Endoscopic Nipple-Sparing Mastectomy in the Management of Breast Cancer: Technique, Clinical Outcomes, Medical Cost, Learning Curve, and Patient-Reported Aesthetic Results from 80 Preliminary Procedures. Annals of Surgical Oncology, 2021, 28, 7331-7344.	1.5	17
50	Oncoplastic Surgery for Upper/Upper Inner Quadrant Breast Cancer. PLoS ONE, 2016, 11, e0168434.	2.5	17
51	Computer algorithm for analysing breast tumor angiogenesis using 3-D power Doppler ultrasound. Ultrasound in Medicine and Biology, 2006, 32, 1499-1508.	1.5	16
52	A 10-year Follow-up of Triple-negative Breast Cancer Patients in Taiwan. Japanese Journal of Clinical Oncology, 2012, 42, 161-167.	1.3	16
53	Automatic Contouring for Breast Tumors in 2-D Sonography. Ultrasound in Medicine and Biology, 2005, 31, 3225-8.		15
54	Computer-Aided Diagnosis for Breast Tumors by Using Vascularization of 3-D Power Doppler Ultrasound. Ultrasound in Medicine and Biology, 2009, 35, 1607-1614.	1.5	15

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55	Apolipoprotein E4 allele influences the response of plasma triglyceride levels to tamoxifen in breast cancer patients. <i>Clinica Chimica Acta</i> , 2009, 401, 144-147.	1.1	15
56	Differences in accuracy and underestimation rates for 14- versus 16-gauge core needle biopsies in ultrasound-detectable breast lesions. <i>Asian Journal of Surgery</i> , 2013, 36, 83-88.	0.4	15
57	Prediction of axillary lymph node metastases in breast cancer patients based on pathologic information of the primary tumor. <i>Medical Science Monitor</i> , 2014, 20, 577-581.	1.1	15
58	Breast cancer diagnosis using three-dimensional ultrasound and pixel relation analysis. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 1027-1035.	1.5	14
59	Three-dimensional ultrasound in margin evaluation for breast tumor excision using Mammotome [®] . <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 169-179.	1.5	13
60	p53 Is a Key Regulator for Osthole-Triggered Cancer Pathogenesis. <i>BioMed Research International</i> , 2014, 2014, 1-9.	1.9	13
61	Adjuvant Tamoxifen Influences the Lipid Profile in Breast Cancer Patients. <i>Breast Care</i> , 2014, 9, 35-39.	1.4	13
62	Characterization of benign and malignant solid breast masses in harmonic 3D power Doppler imaging. <i>European Journal of Radiology</i> , 2009, 71, 89-95.	2.6	12
63	Acupuncture-Related Rapid Dermal Spread of Breast Cancer: A Rare Case. <i>Journal of Breast Cancer</i> , 2011, 14, 340.	1.9	12
64	Hemoglobin adducts as biomarkers of estrogen homeostasis: Elevation of estrogenquinones as a risk factor for developing breast cancer in Taiwanese Women. <i>Toxicology Letters</i> , 2014, 225, 386-391.	0.8	12
65	Characterization of estrogen quinone-derived protein adducts and their identification in human serum albumin derived from breast cancer patients and healthy controls. <i>Toxicology Letters</i> , 2011, 202, 244-252.	0.8	11
66	Cumulative body burdens of polycyclic aromatic hydrocarbons associated with estrogen bioactivation in pregnant women: Protein adducts as biomarkers of exposure. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014, 49, 634-640.	1.7	11
67	A phase II study of neoadjuvant chemotherapy with docetaxel, cisplatin and trastuzumab for T2 breast cancers. <i>Cancer Chemotherapy and Pharmacology</i> , 2012, 69, 1363-1368.	2.3	10
68	Investigation of the cumulative body burden of estrogen-3,4-quinone in breast cancer patients and controls using albumin adducts as biomarkers. <i>Toxicology Letters</i> , 2013, 218, 194-199.	0.8	10
69	Effectiveness of evaluating tumor vascularization using 3D power Doppler ultrasound with high-definition flow technology in the prediction of the response to neoadjuvant chemotherapy for T2 breast cancer: a preliminary report. <i>Physics in Medicine and Biology</i> , 2015, 60, 7763-7778.	3.0	10
70	Computer-Aided Assessment of Tumor Grade for Breast Cancer in Ultrasound Images. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-6.	1.3	10
71	Endoscopy-Assisted Total Mastectomy with and without Immediate Reconstruction: An Extended Follow-Up, Multicenter Study. <i>Plastic and Reconstructive Surgery</i> , 2021, 147, 267-278.	1.4	9
72	Breast cancer diagnosis using image retrieval for different ultrasonic systems. , 0, , .		8

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73	Computer-Aided Diagnosis Applied to 3-D US of Solid Breast Nodules by Using Principal Component Analysis and Image Retrieval. , 2005, 2005, 1802-5.		8
74	Breast ultrasound image classification using fractal analysis. , 0, , .		7
75	Expression of Glucose Transporterâ€1 in Taiwanese Patients with Breast Carcinomaâ€”A Preliminary Report. Kaohsiung Journal of Medical Sciences, 2006, 22, 339-345.	1.9	7
76	Sparing sentinel node biopsy through axillary lymph node fine needle aspiration in primary breast cancers. World Journal of Surgical Oncology, 2013, 11, 296.	1.9	7
77	Round block technique is a useful oncoplastic procedure for multicentric fibroadenomas. Journal of the Royal College of Surgeons of Edinburgh, 2016, 14, 33-37.	1.8	7
78	Using Flow Characteristics in Three-Dimensional Power Doppler Ultrasound Imaging to Predict Complete Responses in Patients Undergoing Neoadjuvant Chemotherapy. Journal of Ultrasound in Medicine, 2017, 36, 887-900.	1.7	7
79	Association of surgical margins with local recurrence in patients undergoing breast-conserving surgery after neoadjuvant chemotherapy. BMC Cancer, 2020, 20, 451.	2.6	7
80	Three-dimensional ultrasonography for breast malignancy detection. Expert Opinion on Medical Diagnostics, 2011, 5, 253-261.	1.6	6
81	Mammographic Density Distribution of Healthy Taiwanese Women and its Naturally Decreasing Trend with Age. Scientific Reports, 2018, 8, 14937.	3.3	6
82	Three-Dimensional Region-Based Segmentation for Breast Tumors on Sonography. Journal of Ultrasound in Medicine, 2013, 32, 835-846.	1.7	6
83	Use of highâ€dose nandrolone aggravates septic shock in a mouse model. Kaohsiung Journal of Medical Sciences, 2011, 27, 222-229.	1.9	5
84	Power Doppler breast ultrasound: association of vascularization and ER/c-erbB-2 co-expression in invasive breast carcinoma. Breast Cancer, 2013, 20, 152-158.	2.9	5
85	Albumin and hemoglobin adducts of estrogen quinone as biomarkers for early detection of breast cancer. PLoS ONE, 2018, 13, e0201241.	2.5	5
86	3-D ultrasound strain images for breast cancer diagnosis. International Congress Series, 2005, 1281, 1069-1074.	0.2	4
87	Stellate Masses and Histologic Grades in Breast Cancer. Ultrasound in Medicine and Biology, 2014, 40, 904-916.	1.5	4
88	Implant volume estimation in direct-to-implant breast reconstruction after nipple-sparing mastectomy. Journal of Surgical Research, 2018, 231, 290-296.	1.6	4
89	Relationships between Follicle-Stimulating Hormone and Adiponectin in Postmenopausal Women. Metabolites, 2020, 10, 420.	2.9	4
90	Evaluation of image compression for computer-aided diagnosis of breast tumors in 3D sonography. , 2006, , .		3

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91	Genetic polymorphisms in APE1 Asp148Glu(rs3136820) as a modifier of the background levels of abasic sites in human leukocytes derived from breast cancer patients and controls. <i>Breast Cancer</i> , 2017, 24, 420-426.	2.9	3
92	Imbalances in the disposition of estrogen and naphthalene in breast cancer patients: a potential biomarker of breast cancer risk. <i>Scientific Reports</i> , 2020, 10, 11773.	3.3	3
93	Nafamostat mesylate overcomes endocrine resistance of breast cancer through epigenetic regulation of CDK4 and CDK6 expression. <i>Translational Oncology</i> , 2022, 15, 101302.	3.7	3
94	Incorporating the Breast Imaging Reporting and Data System Lexicon with a Fully Convolutional Network for Malignancy Detection on Breast Ultrasound. <i>Diagnostics</i> , 2022, 12, 66.	2.6	3
95	Semantic Segmentation of the Malignant Breast Imaging Reporting and Data System Lexicon on Breast Ultrasound Images by Using DeepLab v3+. <i>Sensors</i> , 2022, 22, 5352.	3.8	3
96	Neural Network Diagnosis System for 3-Dimensional Ultrasonography with Gabor Filter Aided Speckle Decorrelation. , 2008, , .		2
97	Neuroendocrine Carcinoma of the Breast: Case Report and Literature Review. <i>Breast Care</i> , 2009, 4, 324-327.	1.4	2
98	Spiculation Analysis of Breast Tumors on 3D Ultrasound. , 2012, , .		2
99	Three-Dimensional Region-Based Segmentation for Breast Tumors on Sonography. <i>Journal of Ultrasound in Medicine</i> , 2013, 32, 835-846.	1.7	1
100	Profiling of Protein Adducts of Estrogen Quinones in 5-Year Survivors of Breast Cancer Without Recurrence. <i>Cancer Control</i> , 2022, 29, 107327482210841.	1.8	1
101	1458: Application of 3D Power Doppler Ultrasound in CAD System. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, S224.	1.5	0
102	1463: Comparative Analysis of Logistic Regression, Support Vector Machines and Artificial Neural Networks for 3D Power Doppler Imaging of Solid Breast Tumors. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, S225.	1.5	0