

Tsair-Fwu Lee

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

1,247
citations

394421

19
h-index

414414

32
g-index

115
all docs

115
docs citations

115
times ranked

1663
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Health-related Quality of life in 640 head and neck cancer survivors after radiotherapy using EORTC QLQ-C30 and QLQ-H&N35 questionnaires. <i>BMC Cancer</i> , 2011, 11, 128. | 2.6 | 92 |
| 2 | Dosimetric comparisons of helical tomotherapy and step-and-shoot intensity-modulated radiotherapy in nasopharyngeal carcinoma. <i>Radiotherapy and Oncology</i> , 2008, 89, 89-96. | 0.6 | 88 |
| 3 | Using Multivariate Regression Model with Least Absolute Shrinkage and Selection Operator (LASSO) to Predict the Incidence of Xerostomia after Intensity-Modulated Radiotherapy for Head and Neck Cancer. <i>PLoS ONE</i> , 2014, 9, e89700. | 2.5 | 74 |
| 4 | Long-term late toxicities and quality of life for survivors of nasopharyngeal carcinoma treated with intensity-modulated radiotherapy versus non-intensity-modulated radiotherapy. <i>Head and Neck</i> , 2016, 38, E1026-32. | 2.0 | 72 |
| 5 | Comparative analysis of SmartArc-based dual arc volumetric-modulated arc radiotherapy (VMAT) versus intensity-modulated radiotherapy (IMRT) for nasopharyngeal carcinoma. <i>Journal of Applied Clinical Medical Physics</i> , 2011, 12, 158-174. | 1.9 | 60 |
| 6 | Multivariate analysis of quality of life outcome for nasopharyngeal carcinoma patients after treatment. <i>Radiotherapy and Oncology</i> , 2010, 97, 263-269. | 0.6 | 51 |
| 7 | Pretreatment Quality of Life As a Predictor of Distant Metastasis and Survival for Patients With Nasopharyngeal Carcinoma. <i>Journal of Clinical Oncology</i> , 2010, 28, 4384-4389. | 1.6 | 50 |
| 8 | Quantitative analysis of normal tissue effects in the clinic (QUANTEC) guideline validation using quality of life questionnaire datasets for parotid gland constraints to avoid causing xerostomia during head-and-neck radiotherapy. <i>Radiotherapy and Oncology</i> , 2013, 106, 352-358. | 0.6 | 38 |
| 9 | LASSO-based NTCP model for radiation-induced temporal lobe injury developing after intensity-modulated radiotherapy of nasopharyngeal carcinoma. <i>Scientific Reports</i> , 2016, 6, 26378. | 3.3 | 38 |
| 10 | Normal tissue complication probability modeling for cochlea constraints to avoid causing tinnitus after head-and-neck intensity-modulated radiation therapy. <i>Radiation Oncology</i> , 2015, 10, 194. | 2.7 | 37 |
| 11 | Impact of late toxicities on quality of life for survivors of nasopharyngeal carcinoma. <i>BMC Cancer</i> , 2014, 14, 856. | 2.6 | 34 |
| 12 | Scintigraphic assessment of salivary function after intensity-modulated radiotherapy for head and neck cancer: Correlations with parotid dose and quality of life. <i>Oral Oncology</i> , 2013, 49, 42-48. | 1.5 | 32 |
| 13 | Fuzzy Logic-Based Prognostic Score for Outcome Prediction in Esophageal Cancer. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012, 16, 1224-1230. | 3.2 | 25 |
| 14 | LASSO NTCP predictors for the incidence of xerostomia in patients with head and neck squamous cell carcinoma and nasopharyngeal carcinoma. <i>Scientific Reports</i> , 2014, 4, 6217. | 3.3 | 25 |
| 15 | Dosimetric Comparison of Helical Tomotherapy and Dynamic Conformal Arc Therapy in Stereotactic Radiosurgery for Vestibular Schwannomas. <i>Medical Dosimetry</i> , 2011, 36, 62-70. | 0.9 | 24 |
| 16 | Quality of life for head and neck cancer patients treated by combined modality therapy: the therapeutic benefit of technological advances in radiotherapy. <i>Quality of Life Research</i> , 2010, 19, 1243-1254. | 3.1 | 23 |
| 17 | Developing Multivariable Normal Tissue Complication Probability Model to Predict the Incidence of Symptomatic Radiation Pneumonitis among Breast Cancer Patients. <i>PLoS ONE</i> , 2015, 10, e0131736. | 2.5 | 22 |
| 18 | Treatment of nasopharyngeal carcinoma by tomotherapy: five-year experience. <i>Radiation Oncology</i> , 2013, 8, 107. | 2.7 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Patient- and therapy-related factors associated with the incidence of xerostomia in nasopharyngeal carcinoma patients receiving parotid-sparing helical tomotherapy. <i>Scientific Reports</i> , 2015, 5, 13165. | 3.3 | 20 |
| 20 | Improved Node Localization for WSN Using Heuristic Optimization Approaches. , 2016, , . | | 20 |
| 21 | Dosimetric advantages of generalised equivalent uniform dose-based optimisation on dose-volume objectives in intensity-modulated radiotherapy planning for bilateral breast cancer. <i>British Journal of Radiology</i> , 2012, 85, 1499-1506. | 2.2 | 18 |
| 22 | Radiation-induced secondary malignancies for nasopharyngeal carcinoma: a pilot study of patients treated via IMRT or VMAT. <i>Cancer Management and Research</i> , 2018, Volume 10, 131-141. | 1.9 | 18 |
| 23 | Impact of primary tumor volume on local control after definitive radiotherapy for head and neck cancer. <i>Head and Neck</i> , 2013, 36, n/a-n/a. | 2.0 | 16 |
| 24 | High-Q biquadratic notch filter synthesis using nodal admittance matrix expansion. <i>AEU - International Journal of Electronics and Communications</i> , 2015, 69, 981-987. | 2.9 | 16 |
| 25 | Propensity-score-matched evaluation of the incidence of radiation pneumonitis and secondary cancer risk for breast cancer patients treated with IMRT/VMAT. <i>Scientific Reports</i> , 2017, 7, 13771. | 3.3 | 16 |
| 26 | Predicting survival of individual patients with esophageal cancer by adaptive neuro-fuzzy inference system approach. <i>Applied Soft Computing Journal</i> , 2015, 35, 583-590. | 7.2 | 14 |
| 27 | Video Object Tracking with Heuristic Optimization Methods. <i>Journal of Image and Graphics(United Tj ETQq1 1 0.784314 rgBT/Overlo</i> | 3.2 | 14 |
| 28 | Helical tomotherapy for single and multiple liver tumours. <i>Radiation Oncology</i> , 2010, 5, 58. | 2.7 | 13 |
| 29 | Analysis of Vibroarthrographic Signals for Knee Osteoarthritis Diagnosis. , 2012, , . | | 13 |
| 30 | Calibration of EBT2 film using a red-channel PDD method in combination with a modified three-channel technique. <i>Medical Physics</i> , 2015, 42, 5838-5847. | 3.0 | 13 |
| 31 | Normal tissue complication probability model parameter estimation for xerostomia in head and neck cancer patients based on scintigraphy and quality of life assessments. <i>BMC Cancer</i> , 2012, 12, 567. | 2.6 | 12 |
| 32 | The Different Dose-Volume Effects of Normal Tissue Complication Probability Using LASSO for Acute Small-Bowel Toxicity during Radiotherapy in Gynecological Patients with or without Prior Abdominal Surgery. <i>BioMed Research International</i> , 2014, 2014, 1-9. | 1.9 | 12 |
| 33 | Synthesis of vibroarthrographic signals in knee osteoarthritis diagnosis training. <i>BMC Research Notes</i> , 2016, 9, 352. | 1.4 | 12 |
| 34 | Outcomes of patients with nasopharyngeal carcinoma treated with intensity-modulated radiotherapy. <i>Journal of Radiation Research</i> , 2021, 62, 438-447. | 1.6 | 12 |
| 35 | Pre-screening for osteoporosis with calcaneus quantitative ultrasound and dual-energy X-ray absorptiometry bone density. <i>Scientific Reports</i> , 2021, 11, 15709. | 3.3 | 12 |
| 36 | A light field-based method to adjust rounded leaf end MLC position for split shape dose calculation correction in a radiation therapy treatment planning system. <i>Journal of Applied Clinical Medical Physics</i> , 2012, 13, 3-18. | 1.9 | 11 |

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|----|--|-----|-----------|
| 37 | Dependency of EBT2 film calibration curve on postirradiation time. <i>Medical Physics</i> , 2014, 41, 021726. | 3.0 | 11 |
| 38 | Quality of Life as a Mediator between Cancer Stage and Long-Term Mortality in Nasopharyngeal Cancer Patients Treated with Intensity-Modulated Radiotherapy. <i>Cancers</i> , 2021, 13, 5063. | 3.7 | 11 |
| 39 | Relationships among patient characteristics, irradiation treatment planning parameters, and treatment toxicity of acute radiation dermatitis after breast hybrid intensity modulation radiation therapy. <i>PLoS ONE</i> , 2018, 13, e0200192. | 2.5 | 8 |
| 40 | Developing a multivariable normal tissue complication probability model to predict late rectal bleeding following intensity-modulated radiation therapy. <i>Journal of Cancer</i> , 2019, 10, 2588-2593. | 2.5 | 8 |
| 41 | Improving the Face Recognition Accuracy under Varying Illumination Conditions for Local Binary Patterns and Local Ternary Patterns Based on Weber-Face and Singular Value Decomposition. , 2016, , . | | 7 |
| 42 | Development of a System for Real-Time Monitoring of Pressure, Temperature, and Humidity in Casts. <i>Sensors</i> , 2019, 19, 2417. | 3.8 | 7 |
| 43 | The suitable dose range for the calibration of EBT2 film by the PDD method with a comparison of two curve fitting algorithms. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 777, 85-90. | 1.6 | 6 |
| 44 | Evaluation of Multiple-Sampling Function used with a Microtek flatbed scanner for Radiation Dosimetry Calibration of EBT2 Film. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 832, 179-183. | 1.6 | 6 |
| 45 | Evaluating the Risk Factors of Post Inflammatory Hyperpigmentation Complications with Nd-YAG Laser Toning Using LASSO-Based Algorithm. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2049. | 2.5 | 6 |
| 46 | Development of an Automated Body Temperature Detection Platform for Face Recognition in Cattle with YOLO V3-Tiny Deep Learning and Infrared Thermal Imaging. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4036. | 2.5 | 6 |
| 47 | Hourly Power Consumption Forecasting Using RobustSTL and TCN. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4331. | 2.5 | 6 |
| 48 | Quantitative Coronary Analysis Medical Image Processing Improved by Combining Wavelet Edge Detection and Segmentation. , 2009, , . | | 5 |
| 49 | Improving Face Recognition Performance Using Similarity Feature-Based Selection and Classification Algorithm. , 2013, , . | | 5 |
| 50 | Symbolic analysis of active device containing differencing voltage or current characteristics. <i>Microelectronics Journal</i> , 2013, 44, 354-358. | 2.0 | 5 |
| 51 | Local intensity area descriptor for facial recognition in ideal and noise conditions. <i>Journal of Electronic Imaging</i> , 2017, 26, 023011. | 0.9 | 5 |
| 52 | Consistency between Targets Delineated by Angiography, Computed Tomography, and Magnetic Resonance Imaging in Stereotactic Radiosurgery for Arteriovenous Malformation. <i>Stereotactic and Functional Neurosurgery</i> , 2017, 95, 236-242. | 1.5 | 5 |
| 53 | Comparison of Intrafractional Motion in Head and Neck Cancer Between Two Immobilization Methods During Stereotactic Ablative Radiation Therapy by CyberKnife. <i>Cancer Management and Research</i> , 2020, Volume 12, 13599-13606. | 1.9 | 5 |
| 54 | Using deep learning models to analyze the cerebral edema complication caused by radiotherapy in patients with intracranial tumor. <i>Scientific Reports</i> , 2022, 12, 1555. | 3.3 | 5 |

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|----|--|-----|-----------|
| 55 | Technical Advancement of Radiation Therapy. BioMed Research International, 2014, 2014, 1-3. | 1.9 | 4 |
| 56 | Ir-192 Calibration in Air with Farmer Chamber for HDR Brachytherapy. Journal of Medical and Biological Engineering, 2016, 36, 145-152. | 1.8 | 4 |
| 57 | Detection of Adversarial DDoS Attacks Using Generative Adversarial Networks with Dual Discriminators. Symmetry, 2022, 14, 66. | 2.2 | 4 |
| 58 | Fault Diagnosis of Power Transformers Using SVM/ANN with Clonal Selection Algorithm for Features and Kernel Parameters Selection. , 0, , . | | 3 |
| 59 | A Volume Visualization System with Augmented Reality Interaction for Evaluation of Radiotherapy Plans. , 2009, , . | | 3 |
| 60 | Data Acquisition and Processing in Biology and Medicine. BioMed Research International, 2015, 2015, 1-2. | 1.9 | 3 |
| 61 | Face Recognition under Lighting Variation Conditions Using Tan-Triggs Method and Local Intensity Area Descriptor. Advances in Intelligent Systems and Computing, 2018, , 84-92. | 0.6 | 3 |
| 62 | Plan Quality and Secondary Cancer Risk Assessment in Patients with Benign Intracranial Lesions after Radiosurgery using the CyberKnife M6 Robotic Radiosurgery System. Scientific Reports, 2019, 9, 9953. | 3.3 | 3 |
| 63 | Radiation-Induced Secondary Cancer Risk Assessment in Patients With Lung Cancer After Stereotactic Body Radiotherapy Using the CyberKnife M6 System With Lung-Optimized Treatment. Frontiers in Bioengineering and Biotechnology, 2020, 8, 306. | 4.1 | 3 |
| 64 | A Novel Offline-Based DWBA Algorithm with Sorting REPORT for WDM-EPON System. , 2010, , . | | 2 |
| 65 | An intelligence system approach using artificial neural networks to evaluate the quality of treatment planning for nasopharyngeal carcinoma. Scientific Research and Essays, 2012, 7, . | 0.4 | 2 |
| 66 | A Light-Field-Based Method to Adjust On-Axis Rounded Leaf End MLC Position to Predict Off-Axis MLC Penumbra Region Dosimetric Performance in a Radiation Therapy Planning System. BioMed Research International, 2013, 2013, 1-8. | 1.9 | 2 |
| 67 | Radiation Oncology and Medical Physics. BioMed Research International, 2015, 2015, 1-3. | 1.9 | 2 |
| 68 | Physical Characteristics of Fixed and Dynamics Collimator for Cyberknife M6. , 2016, , . | | 2 |
| 69 | Constructing pathological non-ideal active device models using mirror cells. International Journal of Electronics Letters, 2016, 4, 1-15. | 1.2 | 2 |
| 70 | Face recognition under varying lighting conditions: improving the recognition accuracy for local descriptors based on weber-face followed by difference of Gaussians. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2019, 42, 593-601. | 1.1 | 2 |
| 71 | Evaluate the Medial Muscle Strength by Kick Training between the Standing and Sitting Postures. Applied Sciences (Switzerland), 2019, 9, 718. | 2.5 | 2 |
| 72 | Developmental Screening System for Patient Vibration Signals with Knee Disorder. Applied Sciences (Switzerland), 2019, 9, 908. | 2.5 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Development of Joint Activity Angle Measurement and Cloud Data Storage System. <i>Sensors</i> , 2022, 22, 4684. | 3.8 | 2 |
| 74 | VAR Compensation and Voltage Control Strategy Optimization Using Artificial Immune Algorithm for Intelligent Transmission Networks. , 2007, , . | | 1 |
| 75 | Performance Study of Asymmetric Traffic Load for OBS Ring Networks. , 2009, , . | | 1 |
| 76 | Boundary Finding Combining Wavelet and Markov Random Field Segmentation Based on Maximum Entropy Theory. , 2009, , . | | 1 |
| 77 | A fuzzy system for evaluating radiation treatment plans of head and neck cancer. , 2012, , . | | 1 |
| 78 | An Echo-Aided Bat Algorithm to Support Measurable Movement for Optimization Efficiency. , 2013, , . | | 1 |
| 79 | Use Dose Bricks Concept to Implement Nasopharyngeal Carcinoma Treatment Planning. <i>BioMed Research International</i> , 2014, 2014, 1-10. | 1.9 | 1 |
| 80 | Geometric error of cervical point A calculated through traditional reconstruction procedures for brachytherapy treatment. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 457-468. | 1.9 | 1 |
| 81 | Improving Diagnostic Viewing of Region of Interest in Lung Computed Tomography Image Using Unsharp Masking and Singular Value Decomposition. , 2016, , . | | 1 |
| 82 | Using LASSO regression based SVM classification to improve the predictive performance of radiation-induced pneumonitis complication in breast cancer. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2018, 41, 660-666. | 1.1 | 1 |
| 83 | Application of a vertical charged-particle irradiation platform in glioblastoma multiforme cancer stem cell research. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 441, 102-107. | 1.4 | 1 |
| 84 | Photographic image processing to predict radiation dermatitis in breast cancer patients using machine learning algorithms. <i>International Journal of Modern Physics B</i> , 2021, 35, 2140022. | 2.0 | 1 |
| 85 | An adaptive method for recalibrating Gafchromic EBT3 film. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 1007, 165435. | 1.6 | 1 |
| 86 | An Embedded Methodology for FPGAs' Digital Distance Relay Design and Analysis. , 2006, , . | | 0 |
| 87 | An Observer-Based Method for Secure Communication. , 2009, , . | | 0 |
| 88 | Precision Segmentation Rendering for 3-D Coronary Angiography Medical Image. , 2009, , . | | 0 |
| 89 | Evaluating the Dosimetric Impact of Interfraction Variations During Image-Guided Radiotherapy Using Six-degree-of-freedom Image Registration and Equivalent Uniform Dose Method. , 2010, , . | | 0 |
| 90 | Fractal Dimension Characteristic Analysis for Dose Verification in Intensity Modulation Radiation Therapy. , 2012, , . | | 0 |

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|-----|--|-----|-----------|
| 91 | Using Kalman Filter with Morphological Image Operation Tracking a Moving Target in Radiotherapy. , 2012, , . | | 0 |
| 92 | Evaluation of the Opposition Ability for Hand Intrinsic Damage Using a Simple Self-Constructing Electromyography. , 2012, , . | | 0 |
| 93 | Symbolic Small-Signal Analysis of Various Amplifiers. , 2012, , . | | 0 |
| 94 | Tennis Elbow Diagnosis Using Equivalent Uniform Voltage to Fit the Logistic and the Probit Diseased Probability Models. BioMed Research International, 2015, 2015, 1-9. | 1.9 | 0 |
| 95 | An innovative method to acquire the location of point A for cervical cancer treatment by HDR brachytherapy. Journal of Applied Clinical Medical Physics, 2016, 17, 434-445. | 1.9 | 0 |
| 96 | System Development for Patient's Physiological Data Storage and Real-Time Vital Signs Monitoring. , 2016, , . | | 0 |
| 97 | Successful hemostasis and resection of a bleeding gastric polyp by endoscopic banding ligation in a uremic patient taking antiplatelet agent. SpringerPlus, 2016, 5, 1806. | 1.2 | 0 |
| 98 | Real-time target moving monitoring algorithm in respiration gating system. Modern Physics Letters B, 2019, 33, 1940047. | 1.9 | 0 |
| 99 | Lung Locations Most Affected by Dose-Calculation Algorithms in CyberKnife Stereotactic Body Radiotherapy. IEEE Access, 2019, 7, 170763-170773. | 4.2 | 0 |
| 100 | Analyzing the association between dose-volume parameters and radiation-induced brain edema in patients with brain tumor receiving stereotactic radiosurgery. International Journal of Modern Physics B, 2020, 34, 2040134. | 2.0 | 0 |
| 101 | Automatic mantispid egg detection and counting using image nature. International Journal of Modern Physics B, 2020, 34, 2040138. | 2.0 | 0 |
| 102 | Applications of a novel detector for pencil beam scanning proton therapy beam quality assurance. International Journal of Modern Physics B, 2021, 35, 2140041. | 2.0 | 0 |
| 103 | Comparison of MRI Image Segmentation Methods for Radiation-Induced Brain Edema After Radiotherapy for Patients with Intracranial Tumors. Springer Proceedings in Materials, 2021, , 457-471. | 0.3 | 0 |
| 104 | Calibration of the EBT3 Gafchromic Film Using HNN Deep Learning. BioMed Research International, 2021, 2021, 1-10. | 1.9 | 0 |
| 105 | A Novel ScanNet Method for Real-Time Position Monitoring System in Radiotherapy. , 2013, , . | | 0 |
| 106 | Recognition of Gait Patterns with Partial Weight Bearing using Insole Plantar Pressure Sensor. , 2013, , . | | 0 |
| 107 | Quality of Treatment Planning Evaluation for Head and Neck Cancer Using Artificial Neural Networks Intelligence System. Advanced Science Letters, 2013, 19, 3236-3243. | 0.2 | 0 |
| 108 | Usefulness of Vaginal/Rectal Cylinders or Interstitial Needles for Dosimetric Verification and Uncertainty Analysis of Brachytherapy Treatment. Journal of Medical and Biological Engineering, 2021, 41, 805-811. | 1.8 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Synthesis of Adversarial DDoS Attacks Using Wasserstein Generative Adversarial Networks with Gradient Penalty. , 2021, , . | | 0 |
| 110 | Dosimetric Parameters Related to Acute Radiation Dermatitis of Patients with Nasopharyngeal Carcinoma Treated by Intensity-Modulated Proton Therapy. Journal of Personalized Medicine, 2022, 12, 1095. | 2.5 | 0 |