

Murray Loew

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

835
citations

932766

10
h-index

525886

27
g-index

39
all docs

39
docs citations

39
times ranked

809
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping of egg yolk and animal skin glue paint binders in Early Renaissance paintings using near infrared reflectance imaging spectroscopy. <i>Analyst, The</i> , 2013, 138, 4838.	1.7	117
2	COVID-19 CT Image Synthesis With a Conditional Generative Adversarial Network. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 441-452.	3.9	104
3	Direct magnetic resonance detection of neuronal electrical activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16015-16020.	3.3	92
4	Near Infrared Reflectance Imaging Spectroscopy to Map Paint Binders In Situ on Illuminated Manuscripts. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5607-5610.	7.2	90
5	Breast cancer detection using synthetic mammograms from generative adversarial networks in convolutional neural networks. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	0.8	63
6	A comparison of the wavelet and short-time fourier transforms for Doppler spectral analysis. <i>Medical Engineering and Physics</i> , 2003, 25, 547-557.	0.8	61
7	Automatic registration and mosaicking of technical images of Old Master paintings. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 1567-1575.	1.1	53
8	Breast Cancer Detection Using Transfer Learning in Convolutional Neural Networks. , 2017, , .		44
9	CFPNET: Channel-Wise Feature Pyramid For Real-Time Semantic Segmentation. , 2021, , .		33
10	Standoff chemical imaging finds evidence for Jackson Pollock's selective use of alkyd and oil binding media in a famous "drip" painting. <i>Analytical Methods</i> , 2017, 9, 28-37.	1.3	23
11	Unsupervised domain adaptation based COVID-19 CT infection segmentation network. <i>Applied Intelligence</i> , 2022, 52, 6340-6353.	3.3	21
12	Texture analysis and machine learning algorithms accurately predict histologic grade in small ($\leq 4\text{ cm}$) clear cell renal cell carcinomas: a pilot study. <i>Abdominal Radiology</i> , 2020, 45, 789-798.	1.0	17
13	Common functional connectivity alterations in focal epilepsies identified by machine learning. <i>Epilepsia</i> , 2022, 63, 629-640.	2.6	10
14	Classification of mixed-radiation fields using the vector representation of thermoluminescent glow curves. <i>Radiation Measurements</i> , 2008, 43, 410-413.	0.7	8
15	Optimization of wavelength selection for multispectral image acquisition: a case study of atrial ablation lesions. <i>Biomedical Optics Express</i> , 2018, 9, 2189.	1.5	8
16	Evaluation of Generative Adversarial Network Performance Based on Direct Analysis of Generated Images. , 2019, , .		8
17	Application of fiber optic reflectance spectroscopy for the detection of historical glass deterioration. <i>Journal of the American Ceramic Society</i> , 2020, 103, 158-166.	1.9	8
18	Machine Learning Detects Pattern of Differences in Functional Magnetic Resonance Imaging (fMRI) Data between Chronic Fatigue Syndrome (CFS) and Gulf War Illness (GWI). <i>Brain Sciences</i> , 2020, 10, 456.	1.1	8

#	ARTICLE	IF	CITATIONS
19	Analysis of Generalizability of Deep Neural Networks Based on the Complexity of Decision Boundary. , 2020, , .		8
20	A novel measure to evaluate generative adversarial networks based on direct analysis of generated images. Neural Computing and Applications, 2021, 33, 13921-13936.	3.2	7
21	Application of unsupervised learning to hyperspectral imaging of cardiac ablation lesions. Journal of Medical Imaging, 2018, 5, 1.	0.8	7
22	Differential oblique angle spectroscopy of the oral epithelium. Journal of Biomedical Optics, 2004, 9, 951.	1.4	6
23	Use of infrared hyperspectral imaging (960â€“1680 nm) and low energy x-radiography to visualize watermarks. , 2018, , .		5
24	An Internal Cluster Validity Index Using a Distance-based Separability Measure. , 2020, , .		5
25	Quantitative assessment of in vitro jets based on three-dimensional color Doppler reconstruction. Ultrasound in Medicine and Biology, 2001, 27, 235-243.	0.7	4
26	A Virtual Instrument for Acquisition and Analysis of the Phonocardiogram and Its Internet-Based Application. Telemedicine Journal and E-Health, 2001, 7, 333-339.	1.6	4
27	Automatic detection of simulated motion blur in mammograms. Medical Physics, 2020, 47, 1786-1795.	1.6	4
28	Use of Microscopy and Microanalysis in Assessing Kinetics of Degradation in 19th-century Heritage Glasses. Microscopy and Microanalysis, 2018, 24, 2138-2139.	0.2	3
29	Nineteenth century glass manufacture and its effect on photographic glass stability. Journal of the Institute of Conservation, 2020, 43, 125-141.	0.2	3
30	Prediction of histologic grade and type of small (< 4 cm) papillary renal cell carcinomas using texture and neural network analysis: a feasibility study. Abdominal Radiology, 2021, 46, 4266-4277.	1.0	3
31	Glass at risk: A new approach for the study of 19th century vessel glass. Journal of Cultural Heritage, 2022, 54, 155-166.	1.5	3
32	A novel intrinsic measure of data separability. Applied Intelligence, 2022, 52, 17734-17750.	3.3	2
33	Hybrid Retinal Image Registration Using Mutual Information and Salient Features. IEICE Transactions on Information and Systems, 2016, E99.D, 1729-1732.	0.4	1
34	Adverse events of after-loading high dose rate brachytherapy reported to the United States Food and Drug Administration (FDA). Brachytherapy, 2021, 20, 1053-1061.	0.2	1
35	Trends in guideline-adherent chemoradiation therapy for locally advanced cervical cancer before and after the affordable care act. Gynecologic Oncology, 2022, 166, 165-172.	0.6	1
36	Hierarchical temporal and spatial memory for gait pattern recognition. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	PP02 Presentation Time: 10:10 AM. Brachytherapy, 2021, 20, S9-S10.	0.2	0
38	Deep Clustering for Improved Inter-Cluster Separability and Intra-Cluster Homogeneity with Cohesive Loss. IEICE Transactions on Information and Systems, 2021, E104.D, 776-780.	0.4	0