Daniel Franklin

List of Publications by Year
in descending order

80	840	933447	580821
papers	citations	10 h-index	25 g-index

81	81	81	966
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Detection and discrimination of neutron capture events for NCEPT dose quantification. Scientific Reports, 2022, 12, 5863.	3.3	4
2	Automatic scan range for dose-reduced multiphase CT imaging of the liver utilizing CNNs and Gaussian models. Medical Image Analysis, 2022, 78, 102422.	11.6	1
3	Energy-Harvesting Aided Unmanned Aerial Vehicles for Reliable Ground User Localization and Communications Under Lognormal-Nakagami-m Fading Channels. IEEE Transactions on Vehicular Technology, 2021, 70, 1632-1647.	6.3	9
4	Efficiently compressing 3D medical images for teleinterventions via CNNs and anisotropic diffusion. Medical Physics, 2021, 48, 2877-2890.	3.0	1
5	A Monte Carlo simulation study of scatter fraction and the impact of patient BMI on scatter in long axial field-of-view PET scanners. Zeitschrift Fur Medizinische Physik, 2021, 31, 305-315.	1.5	5
6	Unbalanced Hybrid AOA/RSSI Localization for Simplified Wireless Sensor Networks. Sensors, 2020, 20, 3838.	3.8	12
7	Optimisation of monolithic nanocomposite and transparent ceramic scintillation detectors for positron emission tomography. Scientific Reports, 2020, 10, 1409.	3.3	17
8	Experimental investigation of the characteristics of radioactive beams for heavy ion therapy. Medical Physics, 2020, 47, 3123-3132.	3.0	6
9	Dose quantification in carbon ion therapy using in-beam positron emission tomography. Physics in Medicine and Biology, 2020, 65, 235052.	3.0	7
10	A validated Geant4 model of a whole-body PET scanner with four-layer DOI detectors. Physics in Medicine and Biology, 2020, 65, 235051.	3.0	12
11	Hybrid TOA/AOA Localization with 1D Angle Estimation in UAV-assisted WSN. , 2020, , .		9
12	Comparative study of alternative Geant4 hadronic ion inelastic physics models for prediction of positron-emitting radionuclide production in carbon and oxygen ion therapy. Physics in Medicine and Biology, 2019, 64, 155014.	3.0	10
13	Monte Carlo investigation of the characteristics of radioactive beams for heavy ion therapy. Scientific Reports, 2019, 9, 6537.	3.3	8
14	An Evaluation of CNN-based Liver Segmentation Methods using Multi-types of CT Abdominal Images from Multiple Medical Centers. , 2019, , .		9
15	Localisation of the Lines of Response in a Continuous Cylindrical Shell PET Scanner. , 2019, 2019, 4844-4850.		1
16	Characterization of the scatter component in large axial field-of-view PET scanners: a Monte Carlo simulation study. , 2018, , .		1
17	Opportunistic dose amplification for proton and carbon ion therapy via capture of internally generated thermal neutrons. Scientific Reports, 2018, 8, 16257.	3.3	26
18	A simulation study of BrachyShade, a shadow-based internal source tracking system for HDR prostate brachytherapy. Physics in Medicine and Biology, 2018, 63, 205019.	3.0	1

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19	PCF-Based LTE Wi-Fi Aggregation for Coordinating and Offloading the Cellular Traffic to D2D Network. IEEE Transactions on Vehicular Technology, 2018, 67, 12193-12203.	6.3	5
20	A Monte Carlo simulation study of the impact of novel scintillation crystals on performance characteristics of PET scanners. Physica Medica, 2018, 50, 37-45.	0.7	17
21	Analysis of Effective Capacity and Throughput of Polling-Based Device-To-Device Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 8656-8666.	6.3	9
22	Scalable MAC protocol for D2D communication for future 5G networks. , 2017, , .		5
23	A Study of User Perception of the Quality of Video Content Rendered Inside a 3-D Virtual Environment. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 125-137.	10.8	4
24	A Comparative Survey of VANET Clustering Techniques. IEEE Communications Surveys and Tutorials, 2017, 19, 657-681.	39.4	361
25	A Survey and Comparison of Device-to-Device Architecture Using LTE Unlicensed Band. , 2017, , .		9
26	Cooperative recovery of coverage holes in WSNs via disjoint spanning trees. , 2017, , .		1
27	Effect of the number of participating nodes on recovery of WSN coverage holes. , 2017, , .		1
28	Leveraging the Propagation Model to Make Greedy Routing Decisions in Urban Environments. , 2017, , .		1
29	Analytical Modelling and Simulation of Single and Double Cone Pinholes for Real-Time In-Body Tracking of an HDR Brachytherapy Source. IEEE Transactions on Nuclear Science, 2016, 63, 1375-1385.	2.0	6
30	Utility-based resource allocation for interference limited OFDMA cooperative relay networks. Physical Communication, 2016, 20, 74-84.	2.1	4
31	Analytic Performance Model for State-Based MAC Layer Cooperative Retransmission Protocols. IEEE Transactions on Mobile Computing, 2016, 15, 32-44.	5.8	11
32	BrachyView, a novel inâ€body imaging system for HDR prostate brachytherapy: Experimental evaluation. Medical Physics, 2015, 42, 7098-7107.	3.0	29
33	A geometrical sink-based cooperative coverage hole recovery strategy for WSNs. , 2015, , .		5
34	Including general environmental effects in <mml:math altimg="si11.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	2.1	1
35	A new virtual ring-based system matrix generator for iterative image reconstruction in high resolution small volume PET systems. Physics in Medicine and Biology, 2015, 60, 6949-6973.	3.0	12
36	Radiation dose enhancement at tissue-tungsten interfaces in HDR brachytherapy. Physics in Medicine and Biology, 2014, 59, 6659-6659.	3.0	10

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37	Simulation of Contrasting Clustering Paradigms under an Experimentally-Derived Channel Model. , 2014, , .		3
38	Feasibility study on the implementation of IEEE 802.11 on cloud-based radio over fibre architecture. , 2014, , .		6
39	Dynamic Environmental Fading in Urban VANETs. , 2014, , .		2
40	Minimisation of video downstream bit rate for large scale immersive video conferencing by utilising the perceptual variations of quality. , 2014, , .		7
41	Large-scale immersive video conferencing by altering video quality and distribution based on the virtual context. , 2014, 52, 66-72.		5
42	BrachyView, A novel inbody imaging system for HDR prostate brachytherapy: Design and Monte Carlo feasibility study. Medical Physics, 2013, 40, 071715.	3.0	13
43	An iteratively tuned fuzzy logic movement model in WSN using particle swarm optimization. , 2013, , .		1
44	Design and development of PETiPIX: An ultra high spatial resolution small animal PET scanner. , 2013, , .		0
45	Improving fairness in IEEE 802.11 networks using MAC layer opportunistic retransmission. Computer Networks, 2013, 57, 3410-3427.	5.1	7
46	Optimised relay selection for route discovery in reactive routing. Ad Hoc Networks, 2013, 11, 70-88.	5.5	15
47	A Tuned Fuzzy Logic Relocation Model in WSNs Using Particle Swarm Optimization. , 2013, , .		8
48	A general performance model for MAC layer cooperative retransmission contention protocols. , 2013, , .		1
49	SEP of Multihop Relay Networks in Nakagami-m Fading Channels. , 2013, , .		2
50	Outage probability of multihop relay networks. , 2013, , .		5
51	Experimental validation of the CORNER urban propagation model based on signal power measurements in a vehicular environment. , 2013, , .		7
52	Brachyview: An in-body imaging system for real-time QA in HDR prostate brachytherapy. , 2013, , .		0
53	A feasibility study of PETiPIX: an ultra high resolution small animal PET scanner. Journal of Instrumentation, 2013, 8, P12004-P12004.	1.2	2
54	Multihop Relay Techniques for Communication Range Extension in Near-Field Magnetic Induction Communication Systems. Journal of Networks, 2013, 8, .	0.4	20

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55	On the impact of RD link in resource allocation for multi-cell OFDMA cooperative relay networks with partial CSI. , 2012, , .		0
56	Implementation of opportunistic cooperative diversity in an Ad-Hoc network using commodity hardware. , 2012, , .		2
57	Distributed Area of Interest Management for Large-Scale Immersive Video Conferencing. , 2012, , .		4
58	A fuzzy logic node relocation model in WSNs. , 2012, , .		4
59	Studying the Impact of the CORNER Propagation Model on VANET Routing in Urban Environments. , 2012, , .		14
60	NFMIC Cooperative Communication Methods for Body Area Networks. Journal of Networks, 2012, 7, .	0.4	0
61	Boundary node selection algorithms in WSNs. , 2011, , .		10
62	On the Error Exponent of Amplify and Forward Relay Networks. IEEE Communications Letters, 2011, 15, 1047-1049.	4.1	4
63	Three-dimensional dosimetry imaging of I-125 plaque for eye cancer treatment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S276-S278.	1.6	10
64	Preclinical studies using a prototype high-resolution PET system with Depth of Interaction. , 2011, , .		3
65	An efficient opportunistic cooperative diversity protocol for IEEE 802.11 networks. , 2010, , .		9
66	SiPM based detector module and digital data acquisition system for PET: Initial results. , 2009, , .		1
67	Evaluation of Silicon Detectors With Integrated JFET for Biomedical Applications. IEEE Transactions on Nuclear Science, 2009, 56, 1051-1055.	2.0	4
68	OLSR-R³: Optimised link state routing with reactive route recovery. , 2009, , .		2
69	Characterising the Behaviour of IEEE 802.11 Broadcast Transmissions in Ad Hoc Wireless LANs. , 2009, , .		5
70	End-to-End path stability of reactive routing protocols in IEEE 802.11 ad hoc networks. , 2009, , .		0
71	Development and performance evaluation of a flexible, low cost MANET. , 2008, , .		0
72	Characterising the Interactions Between Unicast and Broadcast in IEEE 802.11 Ad Hoc Networks. , 2008, , .		4

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73	An Experiment of Control-theoretical Model in Dynamic Portfolio Management. , 2007, , .		1
74	On Indoor Multi-hopping capacity of Wireless Ad-Hoc Mesh Networks. , 2007, , .		3
75	A survey on control separation techniques in multi-radio multi-channel MAC protocols. , 2007, , .		18
76	On Separating Route Control and Data Flows in Multi-radio Multi-hop Ad Hoc Network. Networks, 2008 ICON 2008 16th IEEE International Conference on, 2007, , .	0.0	1
77	A new channel model for ADSL and VDSL systems. , 0, , .		0
78	Paganini-a music analysis and recognition program. , 0, , .		2
79	An improved channel model for ADSL and VDSL systems. , 0, , .		1
80	A Case Study for Choosing Proper Relocation Algorithms to Recover Large Scale Coverage Hole(s) in Wireless Sensor Networks. , 0, , .		4