

Rafael Timteo de Sousa

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151
papers

832
citations

14
h-index

21
g-index

210
ext. papers

1,104
ext. citations

2.9
avg, IF

4.63
L-index

#	Paper	IF	Citations
151	Non-orthogonal multiple access schemes with partial relay selection. <i>IET Communications</i> , 2017 , 11, 846-854	3.54	82
150	Trust-based security for the OLSR routing protocol. <i>Computer Communications</i> , 2013 , 36, 1159-1171	5.1	40
149	Multi-dimensional model order selection. <i>Eurasip Journal on Advances in Signal Processing</i> , 2011 , 2011,	1.9	39
148	Tensor-Based Channel Estimation for Massive MIMO-OFDM Systems. <i>IEEE Access</i> , 2019 , 7, 42133-42147	3.5	27
147	Secure Cooperative Half-Duplex Cognitive Radio Networks With K -th Best Relay Selection. <i>IEEE Access</i> , 2017 , 5, 6678-6687	3.5	22
146	Using cooperative MIMO techniques and UAV relay networks to support connectivity in sparse Wireless Sensor Networks 2013 ,		22
145	Distributed Data Service for Data Management in Internet of Things Middleware. <i>Sensors</i> , 2017 , 17,	3.8	22
144	Set of Usability Heuristics for Quality Assessment of Mobile Applications on Smartphones. <i>IEEE Access</i> , 2019 , 7, 116145-116161	3.5	21
143	A Formal Classification of Internet Banking Attacks and Vulnerabilities. <i>International Journal of Computer Science and Information Technology</i> , 2011 , 3, 186-197	0.6	19
142	Autonomic trust reasoning enables misbehavior detection in OLSR 2008 ,		19
141	Security analysis of a proposed internet of things middleware. <i>Cluster Computing</i> , 2017 , 20, 651-660	2.1	18
140	IoT architecture to enable intercommunication through REST API and UPnP using IP, ZigBee and arduino 2013 ,		14
139	Cybersecurity and Network Forensics: Analysis of Malicious Traffic towards a Honeynet with Deep Packet Inspection. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1082	2.6	14
138	Influence of quasi-particle density over polaron mobility in armchair graphene nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16712-16718	3.6	14
137	A DFT study of a set of natural dyes for organic electronics. <i>Journal of Molecular Modeling</i> , 2017 , 23, 3432		12
136	Bipolaron Dynamics in Graphene Nanoribbons. <i>Scientific Reports</i> , 2019 , 9, 2909	4.9	12
135	Optimally tuned functionals improving the description of optical and electronic properties of the phthalocyanine molecule. <i>Journal of Molecular Modeling</i> , 2017 , 23, 71	2	10

134	Tensor-based multiple denoising via successive spatial smoothing, low-rank approximation and reconstruction for R-D sensor array processing 2019 , 89, 1-7		10
133	On the Effects of LOS Path and Opportunistic Scheduling in Energy Harvesting Relay Systems. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 8506-8524	9.6	10
132	A ubiquitous communication architecture integrating transparent UPnP and REST APIs. <i>International Journal of Embedded Systems</i> , 2014 , 6, 188	0.5	10
131	Secrecy performance of MIMO Nakagami-m wiretap channels with optimal TAS and different antenna schemes. <i>Transactions on Emerging Telecommunications Technologies</i> , 2016 , 27, 828-841	1.9	9
130	Trust-Based Countermeasures for Securing OLSR Protocol 2009 ,		9
129	New DoS Defense Method Based on Strong Designated Verifier Signatures. <i>Sensors</i> , 2018 , 18,	3.8	9
128	Model order selection and eigen similarity based framework for detection and identification of network attacks. <i>Journal of Network and Computer Applications</i> , 2017 , 90, 26-41	7.9	8
127	Design and Evaluation of a Services Interface for the Internet of Things. <i>Wireless Personal Communications</i> , 2016 , 91, 1711-1748	1.9	8
126	Solving incompatibilities between electronic records for orthodontic patients. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2007 , 132, 116-21	2.1	8
125	Exciton Diffusion in Organic Nanofibers: A Monte Carlo Study on the Effects of Temperature and Dimensionality. <i>Scientific Reports</i> , 2018 , 8, 14066	4.9	8
124	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 8807-8820	6.8	7
123	Tuning the electronic structure properties of MoS monolayers with carbon doping. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 11168-11174	3.6	7
122	. <i>IEEE Access</i> , 2020 , 8, 76368-76385	3.5	7
121	Spin-Orbit Effects on the Dynamical Properties of Polarons in Graphene Nanoribbons. <i>Scientific Reports</i> , 2018 , 8, 1914	4.9	7
120	Design and Evaluation of a Semantic Gateway Prototype for IoT Networks 2017 ,		7
119	Analysis of SDN Contributions for Cloud Computing Security 2014 ,		7
118	Proposal of a secure, deployable and transparent middleware for Internet of Things 2014 ,		7
117	Stationary polaron properties in organic crystalline semiconductors. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2727-2733	3.6	6

116	Leveraging information security and computational trust for cybersecurity. <i>Journal of Supercomputing</i> , 2016 , 72, 3729-3763	2.5	6
115	Best Practices Kits for the ICT Governance Process within the Secretariat of State-Owned Companies of Brazil and Regarding these Public Companies. <i>Information (Switzerland)</i> , 2018 , 9, 141	2.6	6
114	Trust model for private cloud 2012 ,		6
113	Error-Robust Distributed Denial of Service Attack Detection Based on an Average Common Feature Extraction Technique. <i>Sensors</i> , 2020 , 20,	3.8	6
112	Improved Kalman-based attitude estimation framework for UAVs via an antenna array 2016 , 59, 49-65		6
111	Joint effect of jamming and noise on the secrecy outage performance of wiretap channels with feedback delay and multiple antennas. <i>Transactions on Emerging Telecommunications Technologies</i> , 2017 , 28, e3191	1.9	5
110	Polaron properties in pentathienoacene crystals. <i>Synthetic Metals</i> , 2019 , 253, 34-39	3.6	5
109	Transport of quasiparticles in coronene-based graphene nanoribbons. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12100-12107	7.1	5
108	Methodology for Forensics Data Reconstruction on Mobile Devices with Android Operating System Applying In-System Programming and Combination Firmware. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4231	2.6	5
107	Security Architecture and Protocol for Trust Verifications Regarding the Integrity of Files Stored in Cloud Services. <i>Sensors</i> , 2018 , 18,	3.8	5
106	2017 ,		5
105	Elements that Orient the Regulatory Compliance Verification Audits on ICT Governance 2017 ,		5
104	Increasing the Dependability of IoT Middleware with Cloud Computing and Microservices 2017 ,		5
103	Evaluating Trust in Ad Hoc Network Routing by Induction of Decision Trees. <i>IEEE Latin America Transactions</i> , 2012 , 10, 1332-1343	0.7	5
102	Integrating trust reasonings into node behavior in olsr 2007 ,		5
101	Certification and Authentication Services for Securing MANET Routing Protocols 2003 ,		5
100	Information and Communication Technology (ICT) Governance Processes: A Case Study. <i>Information (Switzerland)</i> , 2020 , 11, 462	2.6	5
99	Anonymous Real-Time Analytics Monitoring Solution for Decision Making Supported by Sentiment Analysis. <i>Sensors</i> , 2020 , 20,	3.8	5

98	The Answer is in the Text: Multi-Stage Methods for Phishing Detection Based on Feature Engineering. <i>IEEE Access</i> , 2020 , 8, 223529-223547	3.5	5
97	Modeling Polaron Diffusion in Oligoacene-like Crystals. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4715-4720	4.7	5
96	Tensor-Based Subspace Tracking for Time-Delay Estimation in GNSS Multi-Antenna Receivers. <i>Sensors</i> , 2019 , 19,	3.8	5
95	Stationary and Dynamical Properties of Polarons in Anisotropic C60-Crystals. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13410-13418	3.8	4
94	Joint DL and UL Channel Estimation for Millimeter Wave MIMO Systems Using Tensor Modeling. <i>Wireless Communications and Mobile Computing</i> , 2019 , 2019, 1-13	1.9	4
93	Using MIMO Techniques to Enhance Communication Among Static and Mobile Nodes in Wireless Sensor Networks 2013 ,		4
92	Tracking intruders in IoT networks by means of DNS traffic analysis 2017 ,		4
91	Time-delay estimation via procrustes estimation and Khatri-Rao factorization for GNSS multipath mitigation 2017 ,		4
90	File Exchange in a Private Cloud Supported by a Trust Model 2012 ,		4
89	On the Vulnerabilities and Protections of the OLSR ad hoc Routing Protocol from the point of view of Trust. <i>IEEE Latin America Transactions</i> , 2009 , 7, 594-602	0.7	4
88	Efficient Fully Simulatable Oblivious Transfer from the McEliece Assumptions. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2012 , E95.A, 2059-2066	0.4	4
87	Tuning magnetic properties of penta-graphene bilayers through doping with boron, nitrogen, and oxygen. <i>Scientific Reports</i> , 2020 , 10, 16748	4.9	4
86	Monitoring File Integrity Using Blockchain and Smart Contracts. <i>IEEE Access</i> , 2020 , 8, 198548-198579	3.5	4
85	Effective Mass of Quasiparticles in Armchair Graphene Nanoribbons. <i>Scientific Reports</i> , 2019 , 9, 17990	4.9	4
84	QoS Scheduling Algorithm for a Fog IoT Gateway 2019 ,		4
83	Tensor based framework for Distributed Denial of Service attack detection. <i>Journal of Network and Computer Applications</i> , 2021 , 174, 102894	7.9	4
82	A synthesis of common guidelines for regulatory compliance verification in the context of ICT governance audits ¹ . <i>Information Polity</i> , 2018 , 23, 221-237	2.1	4
81	Combined UMC- DFT prediction of electron-hole coupling in unit cells of pentacene crystals. <i>Journal of Molecular Modeling</i> , 2017 , 23, 153	2	3

80	Offline Mode for Corporate Mobile Client Security Architecture. <i>Mobile Networks and Applications</i> , 2017 , 22, 743-759	2.9	3
79	A nested-PARAFAC based approach for target localization in bistatic MIMO radar systems 2019 , 89, 40-48		3
78	Low-Complexity and High-Accuracy Semi-blind Joint Channel and Symbol Estimation for Massive MIMO-OFDM. <i>Circuits, Systems, and Signal Processing</i> , 2019 , 38, 1114-1136	2.2	3
77	Subspace based multi-dimensional model order selection in colored noise scenarios 2011 ,		3
76	Synchronization for Cooperative MIMO in Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2013 , 298-311	0.9	3
75	A Technique for Extraction and Analysis of Application Heap Objects within Android Runtime (ART) 2017 ,		3
74	Charge Transport Mechanism in Chevron-Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22392-22398	3.8	3
73	Continuous Diffusion Analysis. <i>IEEE Access</i> , 2020 , 8, 123735-123745	3.5	3
72	On the Elastic Properties and Fracture Patterns of MoX ₂ (X = S, Se, Te) Membranes: A Reactive Molecular Dynamics Study. <i>Condensed Matter</i> , 2020 , 5, 73	1.8	3
71	. <i>IEEE Access</i> , 2020 , 8, 174931-174942	3.5	3
70	A Framework for Continuous Authentication Based on Touch Dynamics Biometrics for Mobile Banking Applications. <i>Sensors</i> , 2021 , 21,	3.8	3
69	Energy harvesting relay systems in mixed Rician and Rayleigh fading: The effects of LOS path component 2016 ,		3
68	Noise-Robust Multilayer Perceptron Architecture for Distributed Denial of Service Attack Detection. <i>IEEE Communications Letters</i> , 2021 , 25, 402-406	3.8	3
67	Software documentation quality: A case study for the software documentation of SIGEPE 2015 ,		2
66	Implementing interoperability in a Brazilian seismic event database 2015 ,		2
65	Improved localization framework for autonomous vehicles via tensor and antenna array based GNSS receivers 2020 ,		2
64	Robust tensor-based techniques for antenna array-based GNSS receivers in scenarios with highly correlated multipath components 2020 , 101, 102715		2
63	Low Cost Antenna Array Based Drone Tracking Device for Outdoor Environments. <i>Wireless Communications and Mobile Computing</i> , 2019 , 2019, 1-14	1.9	2

62	Business process modelling: A study case within the Brazilian Ministry of Planning, Budgeting and Management 2014 ,		2
61	Energy harvesting photovoltaic system to charge a cell phone in indoor environments 2014 ,		2
60	Intelligent and Flexible Manufacturing Product Line Supported by Agents and Wireless Sensor and Actuator Network. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 222-227		2
59	EvaTalk: A Chatbot System for the Brazilian Government Virtual School 2020 ,		2
58	PROPOSTA DE CONSTRUÇÃO DE MODELO DE MATURIDADE EM GOVERNANÇA E GESTÃO DE TIC. <i>REAd: Revista Eletrônica De Administração</i> , 2020 , 26, 463-494	0.1	2
57	Improved Business Intelligence Solution with Reimbursement Tracking System for the Brazilian Ministry of Planning, Budget and Management 2014 ,		2
56	MISO TAS wiretap channels with jamming and noise at the eavesdropper 2016 ,		2
55	Optimizing the Access Records of Students in the Moodle Virtual Learning Environment Database. <i>IFAC-PapersOnLine</i> , 2016 , 49, 98-101	0.7	2
54	A methodology for quality assurance for business process modeling with BPMN: A case study for the SIGEPE software 2016 ,		2
53	Dynamical Mechanism of Polarons and Bipolarons in Poly(p-Phenylene Vinylene). <i>Scientific Reports</i> , 2019 , 9, 18131	4.9	2
52	. <i>IEEE Access</i> , 2021 , 9, 129605-129618	3.5	2
51	Extended ADDIE Model for improved Distance Learning Courses 2018 ,		2
50	Spatio-Temporal Trend Analysis of the Brazilian Elections Based on Twitter Data 2018 ,		2
49	IoT-based security service for the documentary chain of custody. <i>Sustainable Cities and Society</i> , 2021 , 71, 102940	10.1	2
48	Analysis of the implicit trust within the OLSR protocol. <i>International Federation for Information Processing</i> , 2007 , 75-90		2
47	Evolutionary Strategy for Practical Design of Passive Optical Networks. <i>Photonics</i> , 2022 , 9, 278	2.2	2
46	Optical and electronic structure description of metal-doped phthalocyanines. <i>Journal of Molecular Modeling</i> , 2017 , 23, 172	2	1
45	Polaron Diffusion in Pentathienoacene Crystals. <i>Scientific Reports</i> , 2020 , 10, 7665	4.9	1

44	Data Security and Trading Framework for Smart Grids in Neighborhood Area Networks. <i>Sensors</i> , 2020 , 20,	3.8	1
43	A Proposed Protocol for Periodic Monitoring of Cloud Storage Services Using Trust and Encryption. <i>Lecture Notes in Computer Science</i> , 2016 , 45-59	0.9	1
42	Polaron properties in 2D organic molecular crystals: directional dependence of non-local electron-phonon coupling. <i>Journal of Molecular Modeling</i> , 2019 , 25, 149	2	1
41	Extension of the Brazilian Federal government Budget ontology to support the representation of geolocated human development indicators 2014 ,		1
40	Applying Cooperative MIMO Technique in an Adaptive Routing Mechanism for Wireless Sensor Networks 2013 ,		1
39	Antenna array based framework with multipath mitigation for signal emitter detection and localization 2017 ,		1
38	Secure data storage in distributed cloud environments 2014 ,		1
37	IoT Fog-based Image Matching Monitoring System for Physical Access Control through IP Camera Devices 2020 ,		1
36	Trust Management in Ad Hoc Networks 224-249		1
35	Preventive and Corrective Protection for Mobile Ad Hoc Network Routing Protocols. <i>Lecture Notes in Computer Science</i> , 2004 , 213-226	0.9	1
34	Exploratory Overview on Breaking CAPTCHAs Using the Theory of the Consolidated Meta-Analytic Approach 2020 ,		1
33	Electronic and structural properties of Janus MoSSe/MoX ₂ (X = S,Se) in-plane heterojunctions: A DFT study. <i>Chemical Physics Letters</i> , 2021 , 771, 138495	2.5	1
32	Adversarial attacks on a lexical sentiment analysis classifier. <i>Computer Communications</i> , 2021 , 174, 154-171	17.1	1
31	Proposal of an Implementation Methodology of ICT Processes. <i>Information (Switzerland)</i> , 2019 , 10, 327	2.6	1
30	Inference of driver behavior using correlated IoT data from the vehicle telemetry and the driver mobile phone 2019 ,		1
29	. <i>IEEE Access</i> , 2020 , 8, 95137-95152	3.5	0
28	Corrections to Tensor-Based Channel Estimation for Massive MIMO-OFDM Systems <i>IEEE Access</i> , 2019 , 7, 121645-121645	3.5	0
27	Detection of Electronic Ankle Wearers Groupings throughout Telematics Monitoring. <i>ISPRS International Journal of Geo-Information</i> , 2017 , 6, 31	2.9	0

26	Multi-Sensor Wearable Health Device Framework for Real-Time Monitoring of Elderly Patients Using a Mobile Application and High-Resolution Parameter Estimation.. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 750591	3.3	0
25	A Conversation-Driven Approach for Chatbot Management. <i>IEEE Access</i> , 2022 , 10, 8474-8486	3.5	0
24	Outcome of sex determination from ulnar and radial ridge densities of Brazilians' fingerprints: Applying an existing method to a new population.. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2022 , 62, 181-192	2	0
23	Dynamics and structural transformations of carbon onion-like structures under high-velocity impacts. <i>Carbon</i> , 2022 , 189, 422-429	10.4	0
22	Load Balancing and Survivability for Network Services Based on Intelligent Agents. <i>Lecture Notes in Computer Science</i> , 2004 , 868-881	0.9	0
21	Survivability for a Network Service and Load Balancing Using Intelligent Agents Software. <i>Lecture Notes in Computer Science</i> , 2004 , 734-744	0.9	0
20	On the electronic structure of a recently synthesized graphene-like BCN monolayer from bis-BN cyclohexane with single-atom vacancies: a DFT study. <i>Electronic Structure</i> , 2021 , 3, 014006	2.6	0
19	A DFT study on the electronic structure of in-plane heterojunctions of graphene and hexagonal boron nitride nanoribbons. <i>Electronic Structure</i> , 2021 , 3, 024005	2.6	0
18	Design of a Fog Controller to Provide an IoT Middleware with Hierarchical Interaction Capability. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 280-292	0.4	0
17	Evaluation of Peppermint Leaf Flavonoids as SARS-CoV-2 Spike Receptor-Binding Domain Attachment Inhibitors to the Human ACE2 Receptor: A Molecular Docking Study. <i>Open Journal of Biophysics</i> , 2022 , 12, 132-152	0.6	0
16	Malware Analysis Using the UnBox Tool. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 127-135	0.4	
15	Improving Data Security, Privacy, and Interoperability for the IEEE Biometric Open Protocol Standard. <i>IEEE Access</i> , 2020 , 1-1	3.5	
14	Development and Evaluation of an Intelligence and Learning System in Jurisprudence Text Mining in the Field of Competition Defense. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11365	2.6	
13	Information-Theoretically Secure String Commitments Based on Packet Reordering Channels. <i>IEEE Access</i> , 2021 , 9, 139928-139945	3.5	
12	Enhancing an Integer Challenge-Response Protocol. <i>Lecture Notes in Computer Science</i> , 2008 , 526-540	0.9	
11	Forensic Analysis of Android Runtime (ART) Application Heap Objects in Emulated and Real Devices. <i>Communications in Computer and Information Science</i> , 2018 , 130-147	0.3	
10	Polaron transport in porous graphene nanoribbons. <i>Computational Materials Science</i> , 2021 , 194, 110423	3.2	
9	Design of an Interactive Mobile Platform to Assist Communities in Voluntary Cooperation to Counter the COVID-19 Outbreak. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 577-588	0.4	

8	Design and Evaluation of a Data Collector and Analyzer to Monitor the COVID-19 and Other Epidemic Outbreaks. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 23-35	0.4
7	Usability Assessment of a Jurisprudence System. <i>Lecture Notes in Computer Science</i> , 2021 , 482-499	0.9
6	Estudo de caso de desenvolvimento de plataforma de cloud governamental para TI bimodal. <i>Revista Científica Multidisciplinar Néleo Do Conhecimento</i> , 126-150	0.2
5	Data Science Procedures to Aggregate Unstructured Disease Data in Georeferenced Spreading Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 641-652	0.4
4	Challenges Regarding the Compliance with the General Data Protection Law by Brazilian Organizations: A Survey. <i>Lecture Notes in Computer Science</i> , 2021 , 438-453	0.9
3	Channel-Based RSA Approaches for QoS Protection of Slices Over Elastic Optical Networks. <i>IEEE Access</i> , 2022 , 10, 20714-20726	3.5
2	ICT Governance and Management Macroprocesses of a Brazilian Federal Government Agency. <i>Information (Switzerland)</i> , 2022 , 13, 231	2.6
1	Evaluating and Evolving the Compliance to the Brazilian General Data Protection Law in a Federal Government Agency. <i>Lecture Notes in Business Information Processing</i> , 2022 , 3-27	0.6