

# Pavel Mach

## List of Publications by Year in descending order

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134  
papers

3,292  
citations

759190

12  
h-index

434170

31  
g-index

135  
all docs

135  
docs citations

135  
times ranked

3712  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mobile Edge Computing: A Survey on Architecture and Computation Offloading. IEEE Communications Surveys and Tutorials, 2017, 19, 1628-1656.	39.4	2,296
2	In-Band Device-to-Device Communication in OFDMA Cellular Networks: A Survey and Challenges. IEEE Communications Surveys and Tutorials, 2015, 17, 1885-1922.	39.4	274
3	Joint Positioning of Flying Base Stations and Association of Users: Evolutionary-Based Approach. IEEE Access, 2019, 7, 11454-11463.	4.2	59
4	Adaptive Hysteresis Margin for Handover in Femtocell Networks. , 2010, , .		46
5	Improvement of handover prediction in mobile WiMAX by using two thresholds. Computer Networks, 2011, 55, 3759-3773.	5.1	37
6	Path selection enabling user mobility and efficient distribution of data for computation at the edge of mobile network. Computer Networks, 2016, 108, 357-370.	5.1	36
7	Resource Allocation for D2D Communication With Multiple D2D Pairs Reusing Multiple Channels. IEEE Wireless Communications Letters, 2019, 8, 1008-1011.	5.0	31
8	WiMAX throughput evaluation of conventional relaying. Telecommunication Systems, 2008, 38, 11-17.	2.5	23
9	Path selection using handover in mobile networks with cloud-enabled small cells. , 2014, , .		23
10	Energy-aware Dynamic Selection of Overlay and Underlay Spectrum Sharing for Cognitive Small cells. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	20
11	Device-to-Device Relaying: Optimization, Performance Perspectives, and Open Challenges Towards 6G Networks. IEEE Communications Surveys and Tutorials, 2022, 24, 1336-1393.	39.4	19
12	Dynamic Power Control Mechanism for Femtocells Based on the Frame Utilization. , 2010, , .		18
13	WiMAX Performance Evaluation. , 2007, , .		17
14	Deep Learning for Selection Between RF and VLC Bands in Device-to-Device Communication. IEEE Wireless Communications Letters, 2020, 9, 1763-1767.	5.0	16
15	QoS-Guaranteed Power Control Mechanism Based on the Frame Utilization for Femtocells. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	15
16	Dynamic Optimization of Neighbor Cell List for Femtocells. , 2013, , .		15
17	Predicting Device-to-Device Channels From Cellular Channel Measurements: A Learning Approach. IEEE Transactions on Wireless Communications, 2020, 19, 7124-7138.	9.2	15
18	Combination of visible light and radio frequency bands for device-to-device communication. , 2017, , .		14

#	ARTICLE	IF	CITATIONS
19	Positioning of Flying Base Stations to Optimize Throughput and Energy Consumption of Mobile Devices. , 2019, , .		13
20	Cloud-aware power control for cloud-enabled small cells. , 2014, , .		12
21	Selection between Radio Frequency and Visible Light Communication Bands for D2D. , 2018, , .		12
22	Machine Learning for Power Control in D2D Communication Based on Cellular Channel Gains. , 2019, , .		11
23	Study of thermal ageing of polypropylene film capacitors. , 2015, , .		10
24	Efficient Exploitation of Radio Frequency and Visible Light Communication Bands for D2D in Mobile Networks. IEEE Access, 2019, 7, 168922-168933.	4.2	9
25	Mobility management for D2D communication combining radio frequency and visible light communications bands. Wireless Networks, 2020, 26, 5473-5484.	3.0	9
26	Electrically conductive adhesive filled with mixture of silver nano and microparticles. , 2008, , .		8
27	The ontology based FMEA of lead free soldering process. , 2009, , .		8
28	Impact of Handover on VoIP Speech Quality in WiMAX Networks. , 2009, , .		8
29	Mitigation of Redundant Handovers to Femtocells by Estimation of throughput Gain. Mobile Information Systems, 2013, 9, 315-330.	0.6	8
30	Combined Shared and Dedicated Resource Allocation for D2D Communication. , 2018, , .		8
31	Positioning and Association Rules for Transparent Flying Relay Stations. IEEE Wireless Communications Letters, 2021, 10, 1276-1280.	5.0	8
32	Voltage nonlinearity of carbon black/polyesterimide thick resistive films. Vacuum, 1998, 50, 125-130.	3.5	7
33	The ontology based FMEA of lead free soldering process. , 2010, , .		7
34	Experimental and Numerical Analysis of Melting and Solidification of SnAgCu Joints. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 1445-1455.	2.5	7
35	Thermal Lifetime Calculation of Capacitor Insulation Using the Activation Energy Method. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1647-1656.	2.5	7
36	Incentive-Based D2D Relaying in Cellular Networks. IEEE Transactions on Communications, 2021, 69, 1775-1788.	7.8	7

#	ARTICLE	IF	CITATIONS
37	On enhancement of handover decision in femtocells. , 2011, , .		6
38	Optimization of network entry procedure in relay based WiMAX networks. , 2008, , .		5
39	Correlations between mechanical and electrical parameters of modified electrically conductive adhesives. , 2011, , .		5
40	Reuse of Multiple Channels by Multiple D2D Pairs in Dedicated Mode: A Game Theoretic Approach. IEEE Transactions on Wireless Communications, 2021, 20, 4313-4327.	9.2	5
41	Acquisition of Channel State Information for Routing Purposes in Relay-Based WiMAX Networks. , 2009, , .		4
42	Thermomechanical analysis of electrically conductive adhesives. , 2010, , .		4
43	Influence of thermal aging on the reliability of electrically conductive adhesives. , 2011, , .		4
44	Optimization of association procedure in WiMAX networks with relay stations. Telecommunication Systems, 2013, 52, 1697-1704.	2.5	4
45	Centralized dynamic resource allocation scheme for femtocells exploiting graph theory approach. , 2014, , .		4
46	Power Allocation, Channel Reuse, and Positioning of Flying Base Stations With Realistic Backhaul. IEEE Internet of Things Journal, 2022, 9, 1790-1805.	8.7	4
47	WiMAX Throughput Evaluation of Conventional Relaying. , 2007, , 75-86.		4
48	Handover Procedure in Femtocells. Advances in Wireless Technologies and Telecommunication Book Series, 2012, , 157-179.	0.4	4
49	Stability of Electrical Resistance of Isotropic Conductive Adhesives within Mechanical Stress. , 2006, , .		3
50	Correlation among Mechanical and Electrical Properties of Conductive Adhesive Joints. , 2006, , .		3
51	Analysis and prediction of electrical contact resistance for anisotropic conductive adhesives. , 2008, , .		3
52	Reduction of Scanning Reporting Overhead in IEEE 802.16 Networks with Relays. , 2010, , .		3
53	Optimization of lead-free wave soldering process using taguchi orthogonal arrays. , 2010, , .		3
54	Fast predicted handover in IEEE 802.16 networks. European Transactions on Telecommunications, 2011, 22, 68-80.	1.2	3

#	ARTICLE	IF	CITATIONS
55	Quality management from the perspective of model based Project Management framework. , 2012, , .		3
56	Fast cell selection with efficient active set management in OFDMA networks with femtocells. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	3
57	Optimization of SINR-based Neighbor Cell List for networks with small cells. , 2013, , .		3
58	Analysis of the Curing Process of Electrically Conductive Adhesives Using Taguchi Approach and Full Factorial Experiments Approach. Arabian Journal for Science and Engineering, 2014, 39, 4935-4944.	1.1	3
59	Thermal ageing of polypropylene film capacitors. , 2015, , .		3
60	Sequential Bargaining Game for Reuse of Radio Resources in D2D Communication in Dedicated Mode. , 2020, , .		3
61	Analysis of Changes Due to Long-Term Thermal Aging in Capacitors Manufactured from Polypropylene Film. , 2020, , .		3
62	Diagnostic Tools for Evaluation of the Quality of the Anisotropic Conductive Adhesive Joints. , 2006, , .		2
63	Can conductive adhesives with nanoparticles beat commonly used electrically conductive adhesives without nanoparticles?. , 2007, , .		2
64	Modification of electrically conductive adhesives for better mechanical and electrical properties. , 2008, , .		2
65	Failure mode and effects analysis of a process of reflow lead-free soldering. , 2008, , .		2
66	Solderability measurement of copper with different surface finishes. , 2010, , .		2
67	Comparison of different approaches to manufacturing process optimization. , 2010, , .		2
68	Success case-study Lean production in electronics manufacturing workshop. , 2011, , .		2
69	Resistance and non-linearity of electrically conductive adhesives aged by thermal, humidity and combined aging. , 2011, , .		2
70	Optimization of power control algorithm for femtocells based on frame utilization. , 2011, , .		2
71	Radio resources allocation for decentrally controlled relay stations. Wireless Networks, 2011, 17, 133-148.	3.0	2
72	Efficient routing of data for femtocells. , 2011, , .		2

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73	Study of glass transition temperature of electrically conductive adhesives. , 2012, , .		2
74	Performance of fast cell selection in two-tier OFDMA networks with small cells. , 2012, , .		2
75	Prediction of Channel Quality after Handover for Mobility Management in 5G. , 2014, , .		2
76	Study of thermomechanical properties of one- and two-component conductive adhesives. , 2014, , .		2
77	Ageing of self-healing polypropylene film capacitors by non-sinusoidal voltage. , 2014, , .		2
78	Q-learning-based prediction of channel quality after handover in mobile networks. , 2014, , .		2
79	Analysis on quality of diagnostic processes in power electrical engineering using combined methods of lead six sigma and fuzzy approaches. , 2016, , .		2
80	Changes of loss factor of polypropylene film capacitors during long time thermal ageing. , 2018, , .		2
81	Loss Factor and Non-Linearity of Volt-Ampere Characteristic of Capacitors from Metalized PP Film. , 2019, , .		2
82	Joint Association, Transmission Power Allocation and Positioning of Flying Base Stations Considering Limited Backhaul. , 2020, , .		2
83	Frequency Dependence of Impedance of Adhesive Joints. , 2006, , .		1
84	Modeling of Evaporation of Thin Films Using DOE. , 2006, , .		1
85	Equipment for measurement of nonlinearity of nominally linear components. , 2006, , .		1
86	Transformation of Data for Statistical Processing. , 2006, , .		1
87	Statistical Inspection of a Workplace for Adhesive Assembly. , 2007, , .		1
88	Preparation of electrically conductive adhesives modified with AgNO <sub>3</sub> . , 2009, , .		1
89	Analysis and Performance Evaluation of IEEE 802.16 Enhanced with Decentrally Controlled Relays. , 2009, , .		1
90	Influence of carbon nanotubes added to a commercial adhesive. , 2009, , .		1

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91	Thermomechanical analysis of a bulk of electrically conductive adhesive. , 2010, , .		1
92	Tolerance design of curing process of electrically conductive adhesives. , 2010, , .		1
93	Influence of curing process parameters on quality of electrically conductive joints. , 2010, , .		1
94	Usability of electrically conductive adhesives for power components assembly. , 2010, , .		1
95	Conductive mechanisms in electrical conductive adhesives with isotropical electrical conductivity. , 2011, , .		1
96	Modification of interfacial properties between filler particles in electrically conductive adhesives. , 2011, , .		1
97	Failure analysis of adhesive joining in electronics. , 2011, , .		1
98	Handover of relay stations for load balancing in IEEE 802.16. Wireless Communications and Mobile Computing, 2013, 13, 170-183.	1.2	1
99	Study of sputtering process of alumina thin films. , 2013, , .		1
100	Monitoring of metalized film capacitors degradation with impedance nonlinearity measurement. , 2013, , .		1
101	Enhancement of Hybrid Cognitive Approach for Femtocells. , 2015, , .		1
102	Temperature distribution in solder joints during melting and solidification. , 2015, , .		1
103	Integrating UAVs as Transparent Relays into Mobile Networks: A Deep Learning Approach. , 2020, , .		1
104	Nonlinearity between Interconnection and Resistive Layer. , 1998, , 225-231.		1
105	Distributed Hybrid Spectrum Access for Cognitive Femtocells in 5G Mobile Networks. Elektronika Ir Elektrotechnika, 2016, 22, .	0.8	1
106	Dependence of Shear Strength of Adhesive Conductive Joints on Adhesive Modification with the Silver Nanoparticles and Climatic Aging. , 2020, , .		1
107	Influence of High Current Load on Electrical Properties of Adhesive Conductive Joints. , 2006, , .		0
108	Electrically Loaded Adhesive Bonds Formed on Different Surfaces. , 2007, , .		0

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109	Wetting Force Measurement of the Different Types of Solders and Testing Materials. , 2007, , .		0
110	Design of experiments of AlN reactive sputtering. , 2009, , .		0
111	Impedance of Adhesive Joints. , 2009, , .		0
112	Mathematically simulated process of evaporation of thin NiCr films. , 2009, , .		0
113	Modification of adhesive joints resistance with current pulses. , 2010, , .		0
114	Thermal ageing of electrically conductive micro/nano adhesives. , 2010, , .		0
115	Climatic resistance of electrically conductive adhesive modified with silver nanoparticles. , 2011, , .		0
116	Control tools for process improvement in electrical engineering. , 2011, , .		0
117	Influence of surface finish on resistance of contacts between ECA and Pad. , 2011, , .		0
118	Study of curing process of electrically conductive adhesives using differential scanning calorimetry. , 2012, , .		0
119	Testing of usability of tabbing ribbons adhesive assembly in PV modules production. , 2013, , .		0
120	Influence of filler concentration on frequency dependence of electrically conductive adhesive joints impedance. , 2013, , .		0
121	Ageing of tunnel junctions formed in oxygen plasma and in air. , 2013, , .		0
122	Properties of tunnel junctions with alumina barrier. , 2015, , .		0
123	Nonlinear distortion of C/V characteristic " Useful tool for diagnostics of electrically conductive adhesives: Theoretical background, measuring equipment, selected applications. , 2016, , .		0
124	Influence of continual mechanical stress on climatic ageing of conductive adhesive joints. , 2017, , .		0
125	Influence of surface finish and additional curing on resistance of adhesive conductive joints. , 2018, , .		0
126	Effect of Time of Loading, Frequency, and Amplitude of Current Pulses on Nonlinearity of I-V Characteristic of Conductive Adhesive Joints. , 2020, , .		0



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127	Nonlinearity of Current-voltage Characteristic of PP Film Capacitors During Long-term Thermal Treatment. , 2020, , .		0
128	Noise Diagnostics of Climatically Treated Joints Formed from Conductive Adhesive. , 2021, , .		0
129	Study of Changes in the Dissipation Factor of PP Film Capacitors Caused by Heat Treatment. , 2021, , .		0
130	IMAPS Europe. Microelectronics International, 2000, 17, .	0.6	0
131	On Efficiency of ARQ and HARQ Entities Interaction in WiMAX Networks. , 0, , .		0
132	Dynamic Adjustment of Scheduling Period in Mobile Networks Based on C-RAN. , 2021, , .		0
133	Mathematical Modeling of Resistance of Conductive Adhesive Joints in Climatic Aging. , 2021, , .		0
134	Using Dispersion Analysis to Study the Climatic Aging of Conductive Adhesive Joints. , 2022, , .		0