WICHITA STATE UNIVERSITY

Electrical and Computer Engineering

Guideline for Recognition as High-Quality Publications

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Electrical and Computer Engineering Department

Wichita State University

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ECE Department Publication Policy

The ECE department promotes the use of top-quality publications when faculty selects a journal or conference to publish their research. In general, the quality of the publication reflects the quality of the research and affects the reputation of the faculty members, department, college, and university. A link exists between a faculty member's reputation and the ability of the faculty member to attract external funding because of the perceptions of the members of funding committees.

When a department with multiple focus areas evaluates the quality of publication, an adopted guideline is important. It is unfair to develop a guideline once a paper is published. Our intrinsic biases could influence our decisions and the faculty member, whose work is being evaluated, has no means to correct their actions.

To this end, the ECE faculty has adopted the use of Google Sholar's top-20 h5-index rank with more in than 20 h5-index as the guide for top quality publications. Faculty members working in a specific research area will propose to, and agree with, the Department Chair on the best subcategory of top-20 publications with h5-index more than 20 to be recognized in that area. If no subcategory exists, a faculty member can propose a new subcategory to the faculty, who can agree to or reject through faculty vote.

The agreed to subcategories of top-quality publications will be one measure used by the Professional Development Committee, the Tenure and Promotion Committee and the Department Chair to determine the quality of the research of the faculty.

Developed by the ECE Professional Development Committee and approved by the ECE faculty on 4/26/2024.

ECE Professional Development Committee members
Dr. Steven Skinner (Chair)
Dr. Hyuck Kwon
Dr. John Watkins

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h-index and Google h5-index

h-index[1]

University of Michigan Library defines h-index as "highest number of publications of a scientist that received h or more citations each while other publications have not more than h citations each."

Google Scholer uses h-index as a metric to rank the publications. In that context h-index of a publication is the largest number h such that at least h articles in that publication were cited at least h times each[2].

h5-index

h5-Index is the h-index of only those of the publication's articles that were published in last five complete calendar years.

Why are we using h5-index for publications?

There are many ways to identify key publications in any area. ECE Department voted to use h5-index. This is in line with other institutions recognizing h5-index as a good tool. For example, Yale University Libraries provide guidelines for publications, and they claim it is a good resource to identify major publications in all fields[3]. This will help anyone identify key publications in one's area and improve the reputation of that faculty.

Periodic Assessment

One of the challenges is that the h5-index for publications changes periodically, gets updated in Google Scholar periodically. As of May 20, 2024, Google Scholar Metrics are based on the index computed in July 2023. Since the rankings can change, this document needs to be updated annually. During the Annual Evaluations the ECE Department Chair will use the current ranking to highlight high quality publications.

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[1] https://guides.lib.umich.edu/c.php?g=282982&p=1887449
[2] https://scholar.google.com/intl/en/scholar/metrics.html#metrics
[3] https://guides.library.yale.edu/c.php?g=296124&p=1973761

Artificial Intelligence

	Publication	h5-index	H5-median
1.	Neural Information Processing Systems	309	503
2.	International Conference on Learning Representations	303	563
3.	International Conference on Machine Learning	254	463
4.	AAAI Conference on Artificial Intelligence	212	344
5.	Expert Systems with Applications	148	221
6.	IEEE Transactions on Neural Networks and Learning Systems	145	223
7.	IEEE Transactions on Systems, Man And Cybernetics Part B, Cybernetics	144	199
8.	Neurocomputing	135	202
9.	International Joint Conference on Artificial Intelligence (IJCAI)	133	197
10.	Applied Soft Computing	126	174
11.	Knowledge-Based Systems	120	169
12.	Neural Computing and Applications	117	157
13.	IEEE Transactions on Fuzzy Systems	113	172
14.	The Journal of Machine Learning Research	106	181
15.	Artificial Intelligence Review	91	152
16.	International Conference on Artificial Intelligence and Statistics	91	148
17.	Neural Networks	91	139
18.	Engineering Applications of Artificial Intelligence	87	132
19.	Applied Intelligence	78	119
20.	Conference on Robot Learning	76	133

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Automation & Control Theory

	Publication	h5-index	H5-median
1.	IEEE Transactions on Systems, Man, and Cybernetics: Systems	120	162
2.	IEEE Transactions on Fuzzy Systems	113	172
3.	IEEE Transactions on Automatic Control	112	144
4.	Automatica	103	133
5.	IEEE/CAA Journal of Automatica Sinica	77	118
6.	ISA Transactions	76	96
7.	IEEE Transactions on Control Systems Technology	74	102
8.	International Journal of Robust and Nonlinear Control	60	84
9.	International Federation of Automatic Control	60	75
10.	Annual Reviews in Control	59	103
11.	IEEE Transactions on Control of Network Systems	56	76
12.	International Journal of Fuzzy Systems	54	80
13.	Control Engineering Practice	53	72
14.	Journal of Intelligent & Robotic Systems	49	70
15.	IEEE Conference on Decision and Control	48	66
16.	Journal of Process Control	46	70
17.	Journal of Guidance, Control, and Dynamics	46	67
18.	American Control Conference	43	65
19.	Mechatronics	43	59
20.	Annual Review of Control, Robotics, and Autonomous Systems	42	97

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Aviation & Aerospace Engineering

	Publication	h5-index	H5-median
1.	Aerospace Science and Technology	73	90
2.	Acta Astronautica	57	73
3.	AIAA Journal	54	77
4.	Progress in Aerospace Sciences	53	94
5.	Chinese Journal of Aeronautics	52	82
6.	Drones	47	69
7.	Journal of Guidance, Control, and Dynamics	46	67
8.	AIAA Forum	45	54
9.	Aerospace	37	52
10.	Journal of Aircraft	36	48
11.	Journal of Spacecraft and Rockets	33	45
12.	IEEE Aerospace Conference	32	49
13.	AIAA Aerospace Sciences Meeting	32	40
14.	Journal of Turbomachinery	32	39
15.	International Conference on Unmanned Aircraft Systems	30	42
16.	IEEE Aerospace and Electronic Systems Magazine	30	38
17.	Journal of Propulsion and Power	30	37
18.	Propulsion and Power Research	28	44
19.	Journal of Aerospace Engineering	26	32
20.	Navigation	25	40

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Batteries[4]

	Publication	h5-index	H5-median
1.	Batteries & Supercaps - Chemistry Europe	47	67
2.	Batteries	46	64

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[4] This is not an official Google Scholar Subcategory

Bioinformatics & Computational Biology

	Publication	h5-index	H5-median
1.	Bioinformatics	148	233
2.	Briefings in Bioinformatics	102	137
3.	PLOS Computational Biology	92	125
4.	BMC Bioinformatics	80	107
5.	GigaScience	70	123
6.	IEEE/ACM Transactions on Computational Biology & Bioinformatics	56	83
7.	Journal of Cheminformatics	53	107
8.	Journal of Theoretical Biology	53	78
9.	Genomics, Proteomics & Bioinformatics	49	95
10.	Database	43	71
11.	Mathematical Biosciences and Engineering	43	60
12.	Computational Biology and Chemistry	39	52
13.	Journal of Mathematical Biology	35	45
14.	Mathematical Biosciences	34	61
15.	IEEE International Conference on Bioinformatics and Biomedicine	33	46
16.	BMC Systems Biology	33	42
17.	Current Opinion in Systems Biology	30	53
18.	Current Bioinformatics	29	50
19.	NAR Genomics and Bioinformatics	29	46
20.	Molecular Informatics	29	41

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Chemical & Material Sciences

	Publication	h5-index	H5-median
1.	Advanced Materials	327	420
2.	Angewandte Chemie International Edition	281	361
3.	Chemical Reviews	267	461
4.	Chemical Society Reviews	254	398
5.	Advanced Functional Materials	244	318
6.	Advanced Energy Materials	234	306
7.	Journal of the American Chemical Society	234	306
8.	Chemical engineering journal	232	287
9.	ACS Nano	221	299
10.	Energy & Environmental Science	211	307
11.	Applied Catalysis B: Environmental	210	271
12.	Journal of Hazardous Materials	197	258
13.	Nature Materials	190	312
14.	Nano Energy	187	247
15.	Molecules	184	254
16.	Journal of Materials Chemistry A	184	228
17.	ACS Applied Materials & Interfaces	177	225
18.	Nature Energy	174	357
19.	ACS Catalysis	172	242
20.	Advanced Science	172	233

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Cloud Computing[5]

	Publication	h5-index	H5-median
1.	IEEE Transactions on Cloud Computing	51	70
2.	Journal of Cloud Computing	40	67
3.	International Conference on Cloud Computing, Data Science & Engineering	35	54
4.	ACM Symposium on Cloud Computing	34	67
5.	International Conference on Machine Learning, Big Data, Cloud and Parallel Computing	29	56
6.	IEEE International Conference on Cloud Computing (CLOUD)	28	42
7.	International Journal of Cloud Applications & Computing	27	40
8.	International Conference on Utility and Cloud Computing	23	29
9.	IEEE SmartWorld, Ubiquitous Intelligence & Computing, Advanced & Trusted Computing, Scalable Computing & Communications, Cloud & Big Data Computing, Internet of People and Smart City Innovation	20	27

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[5] This is not an official Google Scholar Subcategory

Computer Architecture[6]

	Publication	h5-index	H5-median
1.	International Symposium on Computer Architecture (ISCA)	62	96
2.	IEEE International Symposium on High Performance Computer Architecture	50	86
3.	IEEE Computer Architecture Letters	23	42

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[6] This is not an official Google Scholar Subcategory

Computer Graphics

	Publication	h5-index	H5-median
1.	ACM Transactions on Graphics (TOG)	111	169
2.	IEEE Transactions on Visualization and Computer Graphics	90	126
3.	Computer Graphics Forum	59	90
4.	The Visual Computer	42	68
5.	Computers & Graphics	34	52
6.	IEEE Computer Graphics and Applications	29	54
7.	SIBGRAPI Conference on Graphics, Patterns and Images	25	38
8.	ACM Symposium on Virtual Reality Software and Technology	24	36
9.	Visual Informatics	22	37
10.	Computer Aided Geometric Design	21	31

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Computer Hardware Design

	Publication	h5-index	H5-median
1.	IEEE Journal of Solid-State Circuits	72	100
2.	IEEE Transactions on Circuits and Systems I: Regular Papers	68	96
3.	IEEE Transactions on Circuits and Systems II: Express Briefs	68	81
4.	IEEE International Solid-State Circuits Conference	66	97
5.	Design Automation Conference (DAC)	60	80
6.	IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems	58	92
7.	IEEE/ACM International Symposium on Microarchitecture	57	92
8.	IEEE Transactions on Computers	51	72
9.	IEEE Transactions on Very Large Scale Integration (VLSI) Systems	49	77
10.	Design, Automation & Test in Europe Conference & Exhibition, DATE	49	64
11.	Microprocessors and Microsystems	44	63
12.	IEEE/ACM International Conference on Computer-Aided Design (ICCAD)	43	57
13.	IEEE International Symposium on Circuits and Systems	41	56
14.	IEEE Journal on Emerging and Selected Topics in Circuits and Systems	40	62
15.	International Conference on Computer Aided Verification (CAV)	38	56
16.	Symposium on Field Programmable Gate Arrays (FPGA)	37	77
17.	Asia and South Pacific Design Automation Conference (ASP-DAC)	36	46
18.	IEEE Symposium on VLSI Circuits (VLSIC)	34	45
19.	IEEE Symposium on Field-Programmable Custom Computing Machines	30	51
20.	Journal of Circuits, Systems and Computers	30	38

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Computer Networks[7]

	Publication	h5-index	H5-median
1.	Journal of Network and Computer Applications	93	168
2.	Computer networks	93	141
3.	International Conference on Computer Communications and Networks	28	36
4.	International Journal of Computer Network and Information Security	23	35
5.	Journal of Computer Networks and Communications	22	44
6.	Conference on Local Computer Networks (LCN)	22	25
7.	International Journal of Computer Science & Network Security	21	33
8.	IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)	20	38
9.	International Conference on Information Systems and Computer Networks	20	28

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[7] This is not an official Google Scholar Subcategory

Computer Vision & Pattern Recognition

	Publication	h5-index	H5-median
1.	IEEE/CVF Conference on Computer Vision and Pattern Recognition	422	681
2.	European Conference on Computer Vision	238	390
3.	IEEE/CVF International Conference on Computer Vision	228	366
4.	IEEE Transactions on Pattern Analysis and Machine Intelligence	179	318
5.	IEEE Transactions on Image Processing	138	199
6.	Pattern Recognition	111	160
7.	IEEE/CVF Computer Society Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)	108	176
8.	Medical Image Analysis	103	171
9.	IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)	95	150
10.	International Journal of Computer Vision	88	165
11.	Pattern Recognition Letters	80	138
12.	British Machine Vision Conference (BMVC)	77	128
13.	IEEE/CVF International Conference on Computer Vision Workshops (ICCVW)	66	102
14.	IEEE International Conference on Image Processing (ICIP)	61	90
15.	Asian Conference on Computer Vision (ACCV)	60	92
16.	International Conference on Pattern Recognition	58	84
17.	Journal of Visual Communication and Image Representation	51	73
18.	Computer Vision and Image Understanding	49	94
19.	International Conference on 3D Vision (3DV)	47	83
20.	IEEE International Conference on Automatic Face & Gesture Recognition	47	79

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Computing Systems

	Publication	h5-index	H5-median
1.	IEEE Internet of Things Journal	171	250
2.	Future Generation Computer Systems	150	224
3.	Cluster Computing	69	91
4.	IEEE Transactions on Services Computing	67	108
5.	The Journal of Supercomputing	67	94
6.	International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS)	66	99
7.	IEEE Transactions on Parallel and Distributed Systems	66	94
8.	Journal of Parallel and Distributed Computing	65	98
9.	USENIX Symposium on Networked Systems Design and Implementation	60	111
10.	Internet of Things	60	93
11.	International Symposium on Computer Architecture (ISCA)	60	87
12.	USENIX Annual Technical Conference	59	110
13.	IEEE/ACM International Symposium on Microarchitecture	57	92
14.	Symposium on Operating Systems Design and Implementation (OSDI)	55	94
15.	Concurrency and Computation: Practice and Experience	54	75
16.	IEEE International Symposium on High Performance Computer Architecture	53	84
17.	International Conference for High Performance Computing, Networking, Storage and Analysis	49	70
18.	Journal of Systems Architecture	49	65
19.	IEEE Transactions on Cloud Computing	48	79
20.	ACM European Conference on Computer Systems	47	76

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Data Mining &Analysis

	Publication	h5-index	H5-median
1.	ACM SIGKDD International Conference on Knowledge Discovery & Data Mining	129	215
2.	IEEE Transactions on Knowledge and Data Engineering	99	180
3.	International Conference on Artificial Intelligence and Statistics	91	148
4.	ACM International Conference on Web Search and Data Mining	75	129
5.	Journal of Big Data	70	147
6.	Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery	54	98
7.	IEEE International Conference on Big Data	53	94
8.	IEEE International Conference on Data Mining	52	84
9.	ACM Conference on Recommender Systems	49	91
10.	Knowledge and Information Systems	48	85
11.	ACM Transactions on Intelligent Systems and Technology (TIST)	42	73
12.	Data Mining and Knowledge Discovery	42	61
13.	European Conference on Machine Learning and Knowledge Discovery in Databases	42	59
14.	Big Data Mining and Analytics	41	67
15.	ACM Transactions on Knowledge Discovery from Data (TKDD)	41	56
16.	SIAM International Conference on Data Mining (SDM)	37	59
17.	International Conference on Advances in Social Networks Analysis and Mining	36	53
18.	Social Network Analysis and Mining	33	56
19.	Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)	31	47
20.	International Journal of Data Science and Analytics	30	61

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Dielectrics[8]

	Publication	h5-index	H5-median
1.	IEEE Transactions on Dielectrics and Electrical Insulation	43	59
2.	Journal of Advanced Dielectrics	20	26

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[8] This is not an official Google Scholar Subcategory

Electrochemistry

	Publication	h5-index	H5-median
1.	Energy Storage Materials	161	225
2.	Journal of Power Sources	132	172
3.	Journal of Energy Storage	126	171
4.	Electrochimica Acta	102	136
5.	Journal of The Electrochemical Society	98	143
6.	ACS Applied Energy Materials	88	111
7.	Electrochemical Society Meeting Abstracts	82	139
8.	Surfaces and Interfaces	75	103
9.	Materials Today Energy	71	95
10.	Carbon Energy	70	105
11.	Electrochemical Energy Reviews	69	116
12.	Sustainable Energy & Fuels	68	98
13.	ChemElectroChem	66	83
14.	Journal of Electroanalytical Chemistry	66	83
15.	Current Opinion in Electrochemistry	65	98
16.	Energy & Environmental Materials	61	92
17.	ECS Meeting	58	111
18.	Materials Science for Energy Technologies	58	93
19.	eScience	56	83
20.	Green Energy & Environment	55	75

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Energy Storage[9]

	Publication	h5-index	H5-median
1.	Energy Storage Materials	161	225
2.	Journal of Energy Storage	126	171
3.	Energy Storage	31	46
4.	Journal of Electrochemical Energy Conversion and Storage	22	31

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[9] This is not an official Google Scholar Subcategory

Engineering Education[10]

	Publication	h5-index	H5-median
1.	Computers & Education	147	223
2.	Computer Applications in Engineering Education	39	55
3.	Journal of Engineering Education	37	53
4.	European Journal of Engineering Education	36	54
5.	IEEE Education Engineering (EDUCON)	35	49
6.	IEEE Transactions on Education	32	48
7.	Education for Chemical Engineers	23	32
8.	The International Journal of Engineering Education	22	32
9.	Annual Conference ASEE	22	27
10.	International Journal of Cognitive Research in Science, Engineering and Education	20	26

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[10] This is not an official Google Scholar Subcategory

High Performance Computing[11]

	Publication	h5-index	H5-median
1.	International Conference for High Performance Computing, Networking, Storage and Analysis	50	89
2.	IEEE International Symposium on High Performance Computer Architecture	50	86
3.	The International Journal of High-Performance Computing Applications	32	53
4.	IEEE High Performance Extreme Computing Conference	26	33
5.	International Conference on High Performance Computing	24	29
6.	ACM International Symposium on High Performance Distributed Computing	21	34
7.	IEEE International Conference on High Performance Computing and Communications	20	29

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[11] This is not an official Google Scholar Subcategory

Information Theory[12]

	Publication	h5-index	H5-median
1.	IEEE Transactions on Information Theory	74	103
2.	International Conference on The Theory and Application of Cryptology and Information Security (ASIACRYPT)	46	66
3.	IEEE International Symposium on Information Theory	46	63
4.	IEEE Journal on Selected Areas in Information Theory	35	57
5.	IEEE International Conference on Advanced Trends in Information Theory	27	39
6.	ACM SIGIR International Conference on Theory of Information Retrieval	24	42
7.	IEEE Information Theory Workshop	24	29
8.	International Symposium on Information Theory and Its Applications	20	27

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[12] This is not an official Google Scholar Subcategory

Microelectronics & Electronic Packaging

	Publication	h5-index	H5-median
1.	IEEE Electron Device Letters	70	91
2.	IEEE Transactions on Electron Devices	61	78
3.	IEEE International Electron Devices Meeting, IEDM	51	68
4.	Microwave and Optical Technology Letters	40	53
5.	Microelectronic Engineering	39	51
6.	Journal of Semiconductors	37	56
7.	Electronics Letters	37	54
8.	IEEE Symposium on VLSI Technology	37	52
9.	IEEE Journal of the Electron Devices Society	37	47
10.	IEEE Transactions on Components, Packaging and Manufacturing Technology	37	44
11.	Microelectronics Reliability	35	42
12.	IEEE Electronic Components and Technology Conference (ECTC)	30	39
13.	Solid-State Electronics	30	39
14.	Microelectronics Journal	30	37
15.	Analog Integrated Circuits and Signal Processing	27	34
16.	IEEE Solid-State Circuits Letters	27	33
17.	IEEE/MTT-S International Microwave Symposium	26	38
18.	Journal of Electronic Packaging	26	30
19.	IEEE International Reliability Physics Symposium (IRPS)	23	32
20.	IEEE Transactions on Device and Materials Reliability	23	31

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Modeling and Simulation[13]

	Publication	h5-index	H5-median
1.	Simulation Modelling Practice and Theory	47	75
2.	International Journal of Modelling and Simulation	28	38
3.	Modelling and Simulation in Materials Science and Engineering	25	33
4.	Transactions of the Society for Modeling and Simulation International (SIMULATION)	24	37
5.	International Journal of Modeling, Simulation, and Scientific Computing	21	27
6.	The Journal of Defense Modeling and Simulation	20	26

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[13] This is not an official Google Scholar Subcategory

Nanotechnology[14]

	Publication	h5-index	H5-median
1.	Nature Nanotechnology	171	294
2.	Nanotechnology	65	91
3.	Environmental Nanotechnology, Monitoring & Management	57	89
4.	Nanomedicine: Nanotechnology, Biology and Medicine	55	68
5.	Nanotechnology Reviews	53	75
6.	Beilstein Journal of Nanotechnology	38	52
7.	Journal of Nanoscience and Nanotechnology	37	48
8.	IEEE Transactions on Nanotechnology	34	45
9.	Journal of Biomedical Nanotechnology	32	42
10.	Nanotechnology for Environmental Engineering	30	50
11.	Frontiers in Nanotechnology	27	47
12.	Cancer Nanotechnology	23	34
13.	IEEE International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment, and Management	23	31
14.	Advances in Natural Sciences: Nanoscience and Nanotechnology	22	32
15.	Nanotechnology and Precision Engineering (NPE)	21	29
16.	Pharmaceutical Nanotechnology	20	41

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[14] This is not an official Google Scholar Subcategory

Power Engineering

	Publication	h5-index	H5-median
1.	IEEE Transactions on Smart Grids	147	193
2.	IEEE Transactions on Power Electronics	124	160
3.	IEEE Transactions on Power Systems	124	156
4.	IEEE Transactions on Sustainable Energy	93	130
5.	International Journal of Electrical Power & Energy Systems	84	107
6.	IEEE Power and Energy Society General Meeting	78	119
7.	IEEE Journal of Emerging and Selected Topics in Power Electronics	75	102
8.	IEEE Transactions on Power Delivery	70	90
9.	Electric Power Systems Research	69	92
10.	IEEE Transactions on Transportation Electrification	65	95
11.	IEEE Transactions on Energy Conversion	59	78
12.	IET Renewable Power Generation	55	76
13.	Journal of Modern Power Systems and Clean Energy	54	73
14.	IET Generation, Transmission & Distribution	54	72
15.	IEEE Transactions on Dielectrics and Electrical Insulation	47	58
16.	Protection and Control of Modern Power Systems	46	71
17.	CSEE Journal of Power and Energy Systems	45	76
18.	IET Power Electronics	44	56
19.	International Transactions on Electrical Energy Systems	43	54
20.	Sustainable Energy, Grids and Networks	42	63

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Robotics

	Publication	h5-index	H5-median
1.	IEEE International Conference on Robotics and Automation	119	183
2.	IEEE Robotics and Automation Letters	106	145
3.	Science Robotics	98	171
4.	IEEE/RSJ International Conference on Intelligent Robots and Systems	78	137
5.	Robotics and Computer-Integrated Manufacturing	77	117
6.	IEEE Transactions on Robotics	74	114
7.	IEEE/ASME Transactions on Mechatronics	74	105
8.	The International Journal of Robotics Research	69	109
9.	Robotics: Science and Systems	61	117
10.	Soft Robotics	60	91
11.	Robotics and Autonomous Systems	56	80
12.	ACM/IEEE International Conference on Human Robot Interaction	55	72
13.	Frontiers in Robotics and AI	54	75
14.	Autonomous Robots	50	74
15.	Journal of Field Robotics	50	70
16.	International Journal of Social Robotics	49	73
17.	Journal of Intelligent & Robotic Systems	49	70
18.	Mechatronics	43	59
19.	Annual Review of Control, Robotics, and Autonomous Systems	42	97
20.	IEEE Transactions on Cognitive and Developmental Systems	42	65

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Satellite Communication and Navigation[15]

	Publication	h5-index	H5-median
1.	Satellite Navigation	31	52
2.	International Technical Meeting of the Satellite Division of The Institute of Navigation	27	35
3.	International Journal of Satellite Communications and Networking	21	35

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[15] This is not an official Google Scholar Subcategory

Signal Processing

	Publication	h5-index	H5-median
1.	IEEE Transactions on Image Processing	138	199
2.	IEEE Transactions on Wireless Communications	128	187
3.	IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)	123	198
4.	Conference of the International Speech Communication Association (INTERSPEECH)	107	162
5.	IEEE Transactions on Signal Processing	96	151
6.	IEEE Wireless Communications Letters	87	121
7.	IEEE Transactions on Circuits and Systems for Video Technology	86	120
8.	IEEE Signal Processing Magazine	75	148
9.	IEEE Journal of Selected Topics in Signal Processing	71	108
10.	IEEE/ACM Transactions on Audio, Speech, and Language Processing	69	108
11.	Signal Processing	67	112
12.	IEEE Signal Processing Letters	63	91
13.	IEEE International Conference on Image Processing (ICIP)	61	90
14.	Journal of Visual Communication and Image Representation	51	73
15.	Signal Processing: Image Communication	50	77
16.	IET Image Processing	46	58
17.	IEEE Vehicular Technology Conference, VTC	45	61
18.	Digital Signal Processing	44	61
19.	IEEE Transactions on Computational Imaging	43	75
20.	IEEE International Conference on Multimedia and Expo	43	60

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Sustainable Energy

	Publication	h5-index	H5-median
1.	Renewable and Sustainable Energy Reviews	226	303
2.	Applied Energy	186	237
3.	Joule	183	276
4.	Nature Energy	177	378
5.	Energy	153	197
6.	Renewable Energy	146	197
7.	Energy Conversion and Management	146	188
8.	Journal of Power Sources	132	173
9.	International Journal of Hydrogen Energy	128	170
10.	Energies	125	169
11.	Solar Energy	112	140
12.	Energy and Buildings	106	139
13.	Journal of Energy Storage	100	139
14.	IEEE Transactions on Sustainable Energy	93	130
15.	Energy Reports	87	123
16.	International Journal of Energy Research	77	96
17.	Sustainable Energy Technologies and Assessments	70	91
18.	Biomass and Bioenergy	67	88
19.	IET Renewable Power Generation	55	76
20.	Journal of the Energy Institute	54	75

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Wireless Communications[16]

	Publication	h5-index	H5-median
1.	IEEE Transactions on Wireless Communications	139	205
2.	IEEE Wireless Communications	98	166
3.	IEEE Wireless Communications Letters	97	142
4.	Wireless Personal Communications	74	96
5.	Wireless Communications and Mobile Computing	64	87
6.	EURASIP Journal on Wireless Communications and Networking	51	79
7.	IEEE Wireless Communications & Networking Conference	41	57
8.	IEEE Workshop on Signal Processing Advances in Wireless Communications	37	58
9.	International Wireless Communications and Mobile Computing Conference (IWCMC)	35	49
10.	Mobile Media & Communication	31	50
11.	IEEE International Symposium on Personal, Indoor and Mobile Radio Communications	30	39
12.	International Conference on Intelligent Communication Technologies and Virtual Mobile Networks	27	44
13.	IEEE Wireless Communications and Networking Conference Workshops (WCNCW)	24	36
14.	Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON)	24	33
15.	Annual Information Technology, Electronics and Mobile Communication Conference	23	32
16.	International Conference on Wireless Communications and Signal Processing	21	32
17.	GetMobile: Mobile Computing and Communications	20	38
18.	International Symposium on Wireless Communication Systems	20	25

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[16] This is not an official Google Scholar Subcategory