

Dar-Zen Chen

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.

107
papers

1,466
citations

24
h-index

32
g-index

120
ext. papers

1,744
ext. citations

3.3
avg, IF

4.95
L-index

#	Paper	IF	Citations
107	How can academic innovation performance in universityIndustry collaboration be improved?. <i>Technological Forecasting and Social Change</i> , 2017 , 123, 210-215	9.5	56
106	Identifying and visualizing technology evolution: A case study of smart grid technology. <i>Technological Forecasting and Social Change</i> , 2012 , 79, 1099-1110	9.5	47
105	Counting methods, country rank changes, and counting inflation in the assessment of national research productivity and impact. <i>Journal of the Association for Information Science and Technology</i> , 2011 , 62, 2427-2436		45
104	Technological collaboration patterns in solar cell industry based on patent inventors and assignees analysis. <i>Scientometrics</i> , 2013 , 96, 427-441	3	44
103	The relationships between the patent performance and corporation performance. <i>Journal of Informetrics</i> , 2012 , 6, 131-139	3.1	42
102	Constructing a patent citation map using bibliographic coupling: A study of Taiwan's high-tech companies. <i>Scientometrics</i> , 2003 , 58, 489-506	3	42
101	Factors of universityIndustry collaboration affecting university innovation performance. <i>Journal of Technology Transfer</i> , 2020 , 45, 560-577	4.4	42
100	Strong ties and weak ties of the knowledge spillover network in the semiconductor industry. <i>Technological Forecasting and Social Change</i> , 2017 , 118, 114-127	9.5	41
99	The inventive activities and collaboration pattern of universityIndustryGovernment in China based on patent analysis. <i>Scientometrics</i> , 2012 , 90, 231-251	3	41
98	The influences of counting methods on university rankings based on paper count and citation count. <i>Journal of Informetrics</i> , 2013 , 7, 611-621	3.1	40
97	International collaboration development in nanotechnology: a perspective of patent network analysis. <i>Scientometrics</i> , 2014 , 98, 683-702	3	39
96	The coupled vibration in a rotating multi-disk rotor system. <i>International Journal of Mechanical Sciences</i> , 2011 , 53, 1-10	5.5	39
95	Design of Statically Balanced Planar Articulated Manipulators With Spring Suspension. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 12-21	6.5	36
94	International scientific and technological collaboration of China from 2004 to 2008: a perspective from paper and patent analysis. <i>Scientometrics</i> , 2012 , 91, 65-80	3	34
93	A theoretical study of weight-balanced mechanisms for design of spring assistive mobile arm support (MAS). <i>Mechanism and Machine Theory</i> , 2013 , 61, 156-167	4	34
92	Using Essential Patent Index and Essential Technological Strength to evaluate industrial technological innovation competitiveness. <i>Scientometrics</i> , 2007 , 71, 101-116	3	32
91	Increasing science and technology linkage in fuel cells: A cross citation analysis of papers and patents. <i>Journal of Informetrics</i> , 2015 , 9, 237-249	3.1	29

90	Core technologies and key industries in Taiwan from 1978 to 2002: A perspective from patent analysis. <i>Scientometrics</i> , 2005 , 64, 31-53	3	28
89	Design of an exoskeleton for strengthening the upper limb muscle for overextension injury prevention. <i>Mechanism and Machine Theory</i> , 2011 , 46, 1825-1839	4	27
88	Bibliometric analysis of complementary and alternative medicine research over three decades. <i>Scientometrics</i> , 2011 , 88, 617-626	3	27
87	A stiffness matrix approach for the design of statically balanced planar articulated manipulators. <i>Mechanism and Machine Theory</i> , 2010 , 45, 1877-1891	4	27
86	The trend of concentration in scientific research and technological innovation: A reduction of the predominant role of the U.S. in world research & technology. <i>Journal of Informetrics</i> , 2012 , 6, 457-468	3.1	25
85	Pattern Planarization Model of Chemical Mechanical Polishing. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 744-748	3.9	25
84	Design of a Gravity-Balanced General Spatial Serial-Type Manipulator. <i>Journal of Mechanisms and Robotics</i> , 2010 , 2,	2.2	24
83	Using the comprehensive patent citation network (CPC) to evaluate patent value. <i>Scientometrics</i> , 2015 , 105, 1319-1346	3	23
82	Ranking patent assignee performance by h-index and shape descriptors. <i>Journal of Informetrics</i> , 2011 , 5, 303-312	3.1	23
81	Research evaluation of research-oriented universities in Taiwan from 1993 to 2003. <i>Scientometrics</i> , 2006 , 67, 419-435	3	23
80	Kinematic analysis of geared mechanisms using the concept of kinematic fractionation. <i>Mechanism and Machine Theory</i> , 2004 , 39, 1207-1221	4	23
79	Identifying missing relevant patent citation links by using bibliographic coupling in LED illuminating technology. <i>Journal of Informetrics</i> , 2011 , 5, 400-412	3.1	21
78	Design of Perfectly Statically Balanced One-DOF Planar Linkages With Revolute Joints Only. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2009 , 131,	3	19
77	Scientific production and citation impact: a bibliometric analysis in acupuncture over three decades. <i>Scientometrics</i> , 2012 , 93, 1061-1079	3	18
76	A Methodology for Conceptual Design of Mechanisms by Parsing Design Specifications. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2005 , 127, 1039-1044	3	17
75	On the Application of Kinematic Units to the Topological Analysis of Geared Mechanisms. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2001 , 123, 240-246	3	17
74	Industry-academia collaboration in fuel cells: a perspective from paper and patent analysis. <i>Scientometrics</i> , 2015 , 105, 1301-1318	3	16
73	Determination of spring installation configuration on statically balanced planar articulated manipulators. <i>Mechanism and Machine Theory</i> , 2014 , 74, 319-336	4	16

72	Globalization of collaborative creativity through cross-border patent activities. <i>Journal of Informetrics</i> , 2012 , 6, 226-236	3.1	16
71	Detecting the temporal gaps of technology fronts: A case study of smart grid field. <i>Technological Forecasting and Social Change</i> , 2012 , 79, 1705-1719	9.5	15
70	Positioning research and innovation performance using shape centroids of h-core and h-tail. <i>Journal of Informetrics</i> , 2011 , 5, 515-528	3.1	15
69	Exploring temporal relationships between scientific and technical fronts: a case of biotechnology field. <i>Scientometrics</i> , 2014 , 98, 1085-1100	3	14
68	Global performance of traditional Chinese medicine over three decades. <i>Scientometrics</i> , 2012 , 90, 945-958	3	14
67	Dynamic Analysis of Geared Robotic Mechanisms Using Graph Theory. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 1998 , 120, 240-244	3	14
66	Topological Synthesis of Fractionated Geared Differential Mechanisms. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2000 , 122, 472-478	3	14
65	Influences of counting methods on country rankings: a perspective from patent analysis. <i>Scientometrics</i> , 2014 , 98, 2087-2102	3	13
64	The bibliographic coupling approach to filter the cited and uncited patent citations: a case of electric vehicle technology. <i>Scientometrics</i> , 2013 , 94, 75-93	3	12
63	Kinematic and Dynamic Synthesis of Geared Robotic Mechanisms. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 1993 , 115, 241-246	3	12
62	Measuring science-based science linkage and non-science-based linkage of patents through non-patent references. <i>Journal of Informetrics</i> , 2015 , 9, 488-498	3.1	11
61	On the Embedded Kinematic Fractionation of Epicyclic Gear Trains. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2000 , 122, 479-483	3	11
60	A taxonomy of patent strategies in Taiwan's small and medium innovative enterprises. <i>Technological Forecasting and Social Change</i> , 2015 , 92, 84-98	9.5	10
59	Technological impact factor: An indicator to measure the impact of academic publications on practical innovation. <i>Journal of Informetrics</i> , 2014 , 8, 241-251	3.1	10
58	The unbalanced performance and regional differences in scientific and technological collaboration in the field of solar cells. <i>Scientometrics</i> , 2013 , 94, 423-438	3	10
57	Industry evolution and key technologies in China based on patent analysis. <i>Scientometrics</i> , 2011 , 87, 175-188	3.2	10
56	Exploring technology evolution and transition characteristics of leading countries: A case of fuel cell field. <i>Advanced Engineering Informatics</i> , 2013 , 27, 366-377	7.4	9
55	Do funding sources matter?: The impact of university-industry collaboration funding sources on innovation performance of universities. <i>Technology Analysis and Strategic Management</i> , 2019 , 31, 1368-1380	3.2	8

54	A comparative study of patent counts by the inventor country and the assignee country. <i>Scientometrics</i> , 2014 , 100, 577-593	3	8
53	Topological Synthesis of Geared Robotic Mechanisms. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 1998 , 120, 230-239	3	8
52	A Hierarchical Decomposition Scheme for the Topological Synthesis of Articulated Gear Mechanisms. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 1999 , 121, 256-263	3	8
51	Design of planar variable-payload balanced articulated manipulators with actuated linear ground-adjacent adjustment. <i>Mechanism and Machine Theory</i> , 2017 , 109, 296-312	4	7
50	A probe into dynamic measures for h-core and h-tail. <i>Journal of Informetrics</i> , 2013 , 7, 129-137	3.1	7
49	Driving factors of external funding and funding effects on academic innovation performance in university-industry-government linkages. <i>Scientometrics</i> , 2013 , 94, 1077-1098	3	7
48	Constructing a new patent bibliometric performance measure by using modified citation rate analyses with dynamic backward citation windows. <i>Scientometrics</i> , 2010 , 82, 149-163	3	7
47	Measuring technological performance of assignees using trace metrics in three fields. <i>Scientometrics</i> , 2015 , 104, 61-86	3	6
46	Exploring patent performance and technology interactions of universities, industries, governments and individuals. <i>Scientometrics</i> , 2013 , 96, 11-26	3	6
45	Inequality of publishing performance and international collaboration in physics. <i>Journal of the Association for Information Science and Technology</i> , 2011 , 62, 1156-1165		6
44	A decomposition approach for the kinematic synthesis of tendon-driven manipulators. <i>Journal of Field Robotics</i> , 1999 , 16, 433-443		6
43	Capturing and Tracking Performance of Patent Portfolio Using $\$h\$$ -Complement Area Centroid. <i>IEEE Transactions on Engineering Management</i> , 2013 , 60, 496-505	2.6	5
42	Biomechanical study of upper-limb exoskeleton for resistance training with three-dimensional motion analysis system. <i>Journal of Rehabilitation Research and Development</i> , 2014 , 51, 111-26		5
41	The Evolution of Knowledge Spillover and Company cluster in Semiconductor Industry. <i>Journal of the Knowledge Economy</i> , 2012 , 3, 109-124	1.3	5
40	Drive train configuration arrangement for gear coupled manipulators. <i>Journal of Field Robotics</i> , 1997 , 14, 601-612		5
39	Kinematic Analysis of Geared Robot Manipulators by the Concept of Structural Decomposition. <i>Mechanism and Machine Theory</i> , 1998 , 33, 975-986	4	4
38	Kinematic Characteristics and Classification of Geared Mechanisms Using the Concept of Kinematic Fractionation. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2008 , 130,	3	4
37	A modular approach for the topological synthesis of geared robot manipulators. <i>Mechanism and Machine Theory</i> , 2003 , 38, 53-69	4	4

36	Design of one DOF closed-loop statically balanced planar linkage with link-collinear spring arrangement. <i>Mechanism and Machine Theory</i> , 2018 , 130, 301-312	4	4
35	BIBLIOMETRIC ANALYSIS OF ACUPUNCTURE RESEARCH FRONTS AND THEIR WORLDWIDE DISTRIBUTION OVER THREE DECADES. <i>Tropical Journal of Obstetrics and Gynaecology</i> , 2017 , 14, 257-273 ^{0.3}		3
34	Missing links: Timing characteristics and their implications for capturing contemporaneous technological developments. <i>Journal of Informetrics</i> , 2018 , 12, 259-270	3.1	3
33	Cross-field evaluation of publications of research institutes using their contributions to the fields MVPs determined by h-index. <i>Journal of Informetrics</i> , 2013 , 7, 455-468	3.1	3
32	Positioning and shifting of technology focus for integrated device manufacturers by patent perspectives. <i>Technological Forecasting and Social Change</i> , 2014 , 81, 363-375	9.5	3
31	A two-dimensional approach to performance evaluation for a large number of research institutions. <i>Journal of the Association for Information Science and Technology</i> , 2012 , 63, 817-828		3
30	Dynamic Analysis and Preliminary Evaluation of a Spring-Loaded Upper Limb Exoskeleton for Resistance Training with Overload Prevention. <i>Journal of Mechanics</i> , 2013 , 29, 35-44	1	3
29	On the Operation Space and Motion Compatibility of Variable Topology Mechanisms. <i>Journal of Mechanisms and Robotics</i> , 2011 , 3,	2.2	3
28	Muscle Activation Levels During Upper Limb Exercise Performed Using Dumbbells and A Spring-Loaded Exoskeleton. <i>Journal of Medical and Biological Engineering</i> , 2017 , 37, 345-356	2.2	2
27	Discovering types of research performance of scientists with significant contributions. <i>Scientometrics</i> , 2020 , 124, 1529-1552	3	2
26	Who files provisional applications in the United States?. <i>Scientometrics</i> , 2016 , 107, 555-568	3	2
25	The Longitudinal Study of Highly-Impact-Technology Enterprises in the ICT Industry. <i>Journal of Global Information Management</i> , 2014 , 22, 54-74	1.9	2
24	Design and preliminary evaluation of an exoskeleton for upper limb resistance training. <i>Frontiers of Mechanical Engineering</i> , 2012 , 7, 188-198	3.3	2
23	Dynamic Modeling of Geared Robotic Mechanisms The Virtual Link Approach. <i>Mechanism and Machine Theory</i> , 1999 , 34, 105-121	4	2
22	Are invalid patents still cited?. <i>Proceedings of the Association for Information Science and Technology</i> , 2019 , 56, 639-641	0.4	2
21	Tracking research performance before and after receiving the Cheung Kong Scholars award: A case study of recipients in 2005. <i>Research Evaluation</i> , 2018 , 27, 367-379	1.7	2
20	The greater scattering phenomenon beyond Bradford's law in patent citation. <i>Journal of the Association for Information Science and Technology</i> , 2014 , 65, 1917-1928	2.7	1
19	A study of collaborations in solar cell science and technology 2010 ,		1

18	On the concentration of productivity and impact in science and technology 2010 ,		1
17	On the drive train design of gear coupled manipulators. <i>Journal of Field Robotics</i> , 1998 , 15, 477-486		1
16	A decomposition methodology for design of mechanisms from functional and structural perspectives 2003 , 26, 537-542		1
15	On the conceptual design of redundant-drive backlash-free geared robot manipulators. <i>Mechanism and Machine Theory</i> , 2002 , 37, 3-14	4	1
14	Dynamic analysis of geared robotic mechanisms by the concept of torque transmission. <i>Mechanism and Machine Theory</i> , 2000 , 35, 629-643	4	1
13	Drive train design of redundant-drive backlash-free robotic mechanisms. <i>Mechanism and Machine Theory</i> , 2000 , 35, 1269-1285	4	1
12	Spring Configurations and Attachment Angles Determination for Statically Balanced Planar Articulated Manipulators. <i>Journal of Mechanisms and Robotics</i> , 1-27	2.2	1
11	The overlooked citations: Investigating the impact of ignoring citations to published patent applications. <i>Journal of Informetrics</i> , 2020 , 14, 100997	3.1	1
10	Potential Value of Patents With Provisional Applications: An Assessment of Bibliometric Approach. <i>IEEE Transactions on Engineering Management</i> , 2019 , 1-20	2.6	1
9	Bibliographically coupled patents: Their temporal pattern and combined relevance. <i>Journal of Informetrics</i> , 2019 , 13, 100978	3.1	1
8	TEMPORARY REMOVAL: Characterizing patent assignees by their structural positions relative to a field's evolutionary trajectory. <i>Journal of Informetrics</i> , 2021 , 15, 101187	3.1	0
7	Exploring Technology Evolution in the Solar Cell Field: An Aspect from Patent Analysis. <i>Data and Information Management</i> , 2017 , 1, 124-134	1.4	
6	On the design of the latch mechanism for wafer containers in a SMIF environment. <i>Journal of Mechanical Science and Technology</i> , 2006 , 20, 2025-2033	1.6	
5	On the Design of An Innovative Latch Mechanism in SMIFed Wafer Containers. <i>Journal of Mechanics</i> , 2003 , 19, 389-395	1	
4	Topological synthesis of compound geared differential mechanisms. <i>International Journal of Vehicle Design</i> , 2003 , 31, 427	2.4	
3	Geared robot manipulators with a jointed unit: Kinematic analysis and its application. <i>Journal of Field Robotics</i> , 2001 , 18, 589-598		
2	Do extraordinary science and technology scientists balance their publishing and patenting activities?. <i>PLoS ONE</i> , 2021 , 16, e0259453	3.7	
1	Comparative Study of Trace Metrics between Bibliometrics and Patentometrics. <i>Journal of Data and Information Science</i> , 2017 , 1, 13-31	1.2	

