

# Charles V Trappey

## List of Publications by Year in descending order

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125  
papers

2,665  
citations

186265

28  
h-index

206112

48  
g-index

130  
all docs

130  
docs citations

130  
times ranked

2133  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of essential standards and patent landscapes for the Internet of Things: A key enabler for Industry 4.0. <i>Advanced Engineering Informatics</i> , 2017, 33, 208-229.	8.0	261
2	Using patent data for technology forecasting: China RFID patent analysis. <i>Advanced Engineering Informatics</i> , 2011, 25, 53-64.	8.0	150
3	A patent quality analysis for innovative technology and product development. <i>Advanced Engineering Informatics</i> , 2012, 26, 26-34.	8.0	148
4	A Review of Technology Standards and Patent Portfolios for Enabling Cyber-Physical Systems in Advanced Manufacturing. <i>IEEE Access</i> , 2016, 4, 7356-7382.	4.2	136
5	Development of a patent document classification and search platform using a back-propagation network. <i>Expert Systems With Applications</i> , 2006, 31, 755-765.	7.6	96
6	IoT patent roadmap for smart logistic service provision in the context of Industry 4.0. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2017, 40, 593-602.	1.1	85
7	An evaluation of the time-varying extended logistic, simple logistic, and Gompertz models for forecasting short product lifecycles. <i>Advanced Engineering Informatics</i> , 2008, 22, 421-430.	8.0	74
8	An evaluation model for low carbon island policy: The case of Taiwan's green transportation policy. <i>Energy Policy</i> , 2012, 45, 510-515.	8.8	71
9	Genetic algorithm dynamic performance evaluation for RFID reverse logistic management. <i>Expert Systems With Applications</i> , 2010, 37, 7329-7335.	7.6	66
10	A computerized quality function deployment approach for retail services. <i>Computers and Industrial Engineering</i> , 1996, 30, 611-622.	6.3	65
11	Intelligent engineering asset management system for power transformer maintenance decision supports under various operating conditions. <i>Computers and Industrial Engineering</i> , 2015, 84, 3-11.	6.3	62
12	A meta-analysis of consumer choice and subliminal advertising. <i>Psychology and Marketing</i> , 1996, 13, 517-530.	8.2	60
13	System dynamics modelling of product carbon footprint life cycles for collaborative green supply chains. <i>International Journal of Computer Integrated Manufacturing</i> , 2012, 25, 934-945.	4.6	59
14	Automatic patent document summarization for collaborative knowledge systems and services. <i>Journal of Systems Science and Systems Engineering</i> , 2009, 18, 71-94.	1.6	49
15	Intelligent patent recommendation system for innovative design collaboration. <i>Journal of Network and Computer Applications</i> , 2013, 36, 1441-1450.	9.1	49
16	A Fuzzy Ontological Knowledge Document Clustering Methodology. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2009, 39, 806-814.	5.0	48
17	Mobile agent technology and application for online global logistic services. <i>Industrial Management and Data Systems</i> , 2004, 104, 169-183.	3.7	46
18	The determinants of photovoltaic system costs: an evaluation using a hierarchical learning curve model. <i>Journal of Cleaner Production</i> , 2016, 112, 1709-1716.	9.3	44

#	ARTICLE	IF	CITATIONS
19	Clustering patents using non-exhaustive overlaps. <i>Journal of Systems Science and Systems Engineering</i> , 2010, 19, 162-181.	1.6	43
20	The analysis of renewable energy policies for the Taiwan Penghu island administrative region. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 958-965.	16.4	42
21	An R&D knowledge management method for patent document summarization. <i>Industrial Management and Data Systems</i> , 2008, 108, 245-257.	3.7	40
22	Intelligent compilation of patent summaries using machine learning and natural language processing techniques. <i>Advanced Engineering Informatics</i> , 2020, 43, 101027.	8.0	40
23	Immersive Technology for Human-Centric Cyberphysical Systems in Complex Manufacturing Processes: A Comprehensive Overview of the Global Patent Profile Using Collective Intelligence. <i>Complexity</i> , 2018, 2018, 1-17.	1.6	37
24	Ontology-based neural network for patent knowledge management in design collaboration. <i>International Journal of Production Research</i> , 2013, 51, 1992-2005.	7.5	34
25	Patent Value Analysis Using Deep Learning Models – The Case of IoT Technology Mining for the Manufacturing Industry. <i>IEEE Transactions on Engineering Management</i> , 2021, 68, 1334-1346.	3.5	34
26	Consumer driven product technology function deployment using social media and patent mining. <i>Advanced Engineering Informatics</i> , 2018, 36, 120-129.	8.0	33
27	Technology and knowledge document cluster analysis for enterprise R&D strategic planning. <i>International Journal of Technology Management</i> , 2006, 36, 336.	0.5	32
28	The design of a JADE-based autonomous workflow management system for collaborative SoC design. <i>Expert Systems With Applications</i> , 2009, 36, 2659-2669.	7.6	32
29	A hierarchical cost learning model for developing wind energy infrastructures. <i>International Journal of Production Economics</i> , 2013, 146, 386-391.	8.9	27
30	A Machine Learning Approach for Solar Power Technology Review and Patent Evolution Analysis. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1478.	2.5	26
31	Deriving industrial logistics hub reference models for manufacturing based economies. <i>Expert Systems With Applications</i> , 2011, 38, 1223-1232.	7.6	24
32	A knowledge centric methodology for dental implant technology assessment using ontology based patent analysis and clinical meta-analysis. <i>Advanced Engineering Informatics</i> , 2014, 28, 153-165.	8.0	24
33	Constructing a dental implant ontology for domain specific clustering and life span analysis. <i>Advanced Engineering Informatics</i> , 2013, 27, 346-357.	8.0	22
34	Retailing in Taiwan: modernization and the emergence of new formats. <i>International Journal of Retail and Distribution Management</i> , 1996, 24, 31-37.	4.7	21
35	An XML based supply chain integration hub for green product lifecycle management. <i>Expert Systems With Applications</i> , 2010, 37, 7319-7328.	7.6	21
36	Clustering analysis prioritization of automobile logistics services. <i>Industrial Management and Data Systems</i> , 2010, 110, 731-743.	3.7	21

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37	Internet and e-commerce adoption by the Taiwan semiconductor industry. <i>Industrial Management and Data Systems</i> , 2005, 105, 476-490.	3.7	20
38	A multi-agent collaborative maintenance platform applying game theory negotiation strategies. <i>Journal of Intelligent Manufacturing</i> , 2013, 24, 613-623.	7.3	20
39	Data interchange services: use of XML hub approach for the aerospace supply chain. <i>International Journal of Technology Management</i> , 2004, 28, 227.	0.5	18
40	Intelligent collaborative patent mining using excessive topic generation. <i>Advanced Engineering Informatics</i> , 2019, 42, 100955.	8.0	17
41	Global content management services for product providers and purchasers. <i>Computers in Industry</i> , 2004, 53, 39-58.	9.9	16
42	Are patent trade wars impeding innovation and development?. <i>World Patent Information</i> , 2016, 46, 64-72.	1.7	16
43	Differences in Factors Attracting Consumers to Taiwan's Supermarkets and Traditional Wet Markets. <i>Journal of Family and Economic Issues</i> , 1997, 18, 211-224.	2.4	15
44	Improving the global competitiveness of retailers using a cultural analysis of in-store digital innovations. <i>International Journal of Technology Management</i> , 2016, 70, 25.	0.5	14
45	Virtual Reality Exposure Therapy for Driving Phobia Disorder: System Design and Development. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4860.	2.5	14
46	A Test Platform for Managing School Stress Using a Virtual Reality Group Chatbot Counseling System. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9071.	2.5	14
47	Life Cycle Analysis of the Optical Disc Industry Market Innovation and Development. <i>Innovation: Management, Policy and Practice</i> , 2015, 17, 196-216.	3.9	13
48	Building an Internet-Based Knowledge Ontology for Trademark Protection. <i>Journal of Global Information Management</i> , 2021, 29, 123-144.	2.8	13
49	Automated silicon intellectual property trade using mobile agent technology. <i>Robotics and Computer-Integrated Manufacturing</i> , 2006, 22, 189-202.	9.9	12
50	The Design and Evaluation of a Supply Chain Logistic Hub for Automobile and Parts Distribution. <i>Materials Science Forum</i> , 2008, 594, 119-131.	0.3	12
51	An exploratory RFID patent analysis. <i>Management Research Review</i> , 2009, 32, 1163-1176.	0.7	12
52	Develop patient monitoring and support system using mobile communication and intelligent reasoning. , 2009, , .		12
53	Virtual Reality Exposure Therapy for Driving Phobia Disorder (2): System Refinement and Verification. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 347.	2.5	12
54	A one-stop logistic services framework supporting global supply chain collaboration. <i>Journal of Systems Science and Systems Engineering</i> , 2016, 25, 229-253.	1.6	11

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55	Tracing the Evolution of Biomedical 3D Printing Technology Using Ontology-Based Patent Concept Analysis. <i>Technology Analysis and Strategic Management</i> , 2017, 29, 339-352.	3.5	11
56	Modeling international investment decisions for financial holding companies. <i>European Journal of Operational Research</i> , 2007, 180, 800-814.	5.7	10
57	THE ANALYSIS OF CUSTOMER SERVICE CHOICES AND PROMOTION PREFERENCES USING HIERARCHICAL CLUSTERING. <i>Journal of the Chinese Institute of Industrial Engineers</i> , 2009, 26, 367-376.	0.5	10
58	A framework of customer complaint handling system. , 2010, , .		10
59	Deriving Competitive Foresight Using an Ontology-Based Patent Roadmap and Valuation Analysis. <i>International Journal on Semantic Web and Information Systems</i> , 2019, 15, 68-91.	5.1	10
60	Construction and validation of an ontology-based technology function matrix: Technology mining of cyber physical system patent portfolios. <i>World Patent Information</i> , 2018, 55, 19-24.	1.7	9
61	Development of an Empathy-Centric Counseling Chatbot System Capable of Sentimental Dialogue Analysis. <i>Processes</i> , 2022, 10, 930.	2.8	9
62	A strategic product portfolio management methodology considering R&D resource constraints for engineering-to-order industries. <i>International Journal of Technology Management</i> , 2009, 48, 258.	0.5	8
63	IP portfolios and evolution of biomedical additive manufacturing applications. <i>Scientometrics</i> , 2017, 111, 139-157.	3.0	8
64	Intelligent Extraction of a Knowledge Ontology From Global Patents. <i>International Journal on Semantic Web and Information Systems</i> , 2020, 16, 61-80.	5.1	8
65	Intelligent recommendation methodology and system for patent search. , 2012, , .		7
66	Data driven modeling for power transformer lifespan evaluation. <i>Journal of Systems Science and Systems Engineering</i> , 2014, 23, 80-93.	1.6	7
67	Ontology-based technology function matrix for patent analysis of additive manufacturing in the dental industry. <i>International Journal of Manufacturing Research</i> , 2017, 12, 64.	0.2	7
68	Location Quotient EIO-LCA Method for Carbon Emission Analysis. , 2013, , 367-377.		7
69	Automobile Manufacturing Logistic Service Management and Decision Support Using Classification and Clustering Methodologies. <i>Advanced Concurrent Engineering</i> , 2009, , 581-592.	0.2	7
70	Intelligent Supply Chain Management Modules Enabling Advanced Manufacturing for the Electric-Mechanical Equipment Industry. <i>Complexity</i> , 2022, 2022, 1-20.	1.6	7
71	CONNECTING SMALL AND MEDIUM ENTERPRISES TO THE GLOBAL MARKET VIA THE GLOBAL LOGISTICS SERVICE CHAINâ€™SECTOR ANALYSES AND CASE STUDIES. <i>Journal of the Chinese Institute of Industrial Engineers</i> , 2002, 19, 75-87.	0.5	6
72	A JADE-based Autonomous Workflow Management System for Collaborative IC Design. , 2007, , .		6

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73	The Diffusion of Innovation and perceived risk for the adoption of alternative energy vehicles. International Journal of Innovation and Learning, 2010, 8, 296.	0.4	6
74	Ontology-based knowledge representation and semantic topic modeling for intelligent trademark legal precedent research. World Patent Information, 2022, 68, 102098.	1.7	6
75	Intelligent trademark recognition and similarity analysis using a two-stage transfer learning approach. Advanced Engineering Informatics, 2022, 52, 101567.	8.0	6
76	The National Si-Soft Project. Applied Surface Science, 2003, 216, 2-7.	6.1	5
77	Re-engineering transformer maintenance processes to improve customized service delivery. Journal of Systems Science and Systems Engineering, 2011, 20, 323-345.	1.6	5
78	Using System Dynamics Analysis for Performance Evaluation of IoT Enabled One-Stop Logistic Services. , 2015, , .		5
79	Collective intelligence applied to legal e-discovery: A ten-year case study of Australia franchise and trademark litigation. Advanced Engineering Informatics, 2015, 29, 787-798.	8.0	5
80	Exploring 4G patent and litigation informatics in the mobile telecommunications industry. World Patent Information, 2017, 50, 38-51.	1.7	5
81	Web Mining Customer Perceptions to Define Product Positions and Design Preferences. International Journal on Semantic Web and Information Systems, 2020, 16, 42-58.	5.1	5
82	China RFID Patent Analysis. , 2009, , .		5
83	Automated Patent Document Summarization for R&D Intellectual Property Management. , 2006, , .		4
84	Evaluating renewable energy policies using hybrid clustering and analytic hierarchy process modeling. , 2014, , .		4
85	Patent Analysis of Key Technologies for Smart Retailing and their Projected Economic Impact. , 2018, , .		4
86	An Evaluation of the Extended Logistic, Simple Logistic, and Gompertz Models for Forecasting Short Lifecycle Products and Services. , 2007, , 793-800.		4
87	Using information overload or decreasing marginal responsiveness to determine "how many catalogs are too many?" It really makes a difference" reply to Ganzach and Or. Journal of Direct Marketing, 1996, 10, 10-12.	0.2	3
88	Using fuzzy cognitive map for evaluation of RFID-based reverse logistics services. , 2009, , .		3
89	Ontology-based dental implant connection patent analysis. , 2013, , .		3
90	Knowledge Discovery of Service Satisfaction Based on Text Analysis of Critical Incident Dialogues and Clustering Methods. , 2013, , .		3

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91	SETZ logistics models and system framework for manufacturing and exporting large engineering assets. <i>Journal of Systems and Software</i> , 2013, 86, 1797-1805.	4.5	3
92	Using a small-island pilot plant approach to analyze low-carbon emission policies. <i>Carbon Management</i> , 2013, 4, 257-260.	2.4	3
93	Computer supported technology function matrix construction for patent data analytics. , 2017, , .		3
94	System Dynamics Evaluation of Renewable Energy Policies. <i>Advanced Concurrent Engineering</i> , 2011, , 133-140.	0.2	3
95	Ontology-based Patent Licensing and Litigation Strategic Knowledge System for the Light Emitting Diode Industry. <i>International Journal of Automation and Smart Technology</i> , 2013, 3, 155-167.	0.4	3
96	Analysis and design of a supply chain logistics hub for after market automotive parts distribution. , 2008, , .		2
97	The analysis and development of Taiwan's industrial logistics hubs. , 2009, , .		2
98	Applying BPANN and hierarchical ontology to develop a methodology for binary knowledge document classification and content analysis. , 2010, , .		2
99	Knowledge discovery of customer satisfaction and dissatisfaction using ontology-based text analysis of critical incident dialogues. , 2012, , .		2
100	The implementation of global logistic services using one-stop logistics management. , 2014, , .		2
101	Understanding customers using Facebook Pages: Data mining users feedback using text analysis. , 2014, , .		2
102	Computer supported formal concept analysis to explore the evolution of patent litigation. , 2015, , .		2
103	Advanced design, analysis, and implementation of pervasive and smart collaborative systems enabled with knowledge modelling and big data analytics. <i>Advanced Engineering Informatics</i> , 2017, 33, 206-207.	8.0	2
104	Computer-supported portfolio analysis and comparison using ontology-based patent classification mapping scheme: the case of mobile communication patent pools. <i>Cluster Computing</i> , 2017, 20, 1661-1677.	5.0	2
105	IP Analytics and Machine Learning Applied to Create Process Visualization Graphs for Chemical Utility Patents. <i>Processes</i> , 2021, 9, 1342.	2.8	2
106	The Integrated Circuit Industry: A Technological Powerhouse. , 2001, , 105-132.		2
107	Using Patent Ontology Engineering for Intellectual Property Defense Support System. , 2013, , 207-217.		2
108	Carbon Emission Analysis for Renewable Energy Policies. , 2015, , 761-778.		2

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109	Incorporating Data Warehouse Technology into Asset Information Management Systems for Large Assets. Lecture Notes in Mechanical Engineering, 2016, , 601-612.	0.4	2
110	Marketing intellectual property using electronic libraries: a survey of system-on-chip engineers and managers in Sweden and Taiwan. International Journal of Technology Management, 2006, 36, 368.	0.5	1
111	Special issue editorial on mass customization and sustainable value systems. Journal of Systems Science and Systems Engineering, 2011, 20, 257-259.	1.6	1
112	Using the collective intelligence of sports fans to improve professional football league customer service. , 2014, , .		1
113	Computer Supported ontology-based patent analysis considering business processes and strategic patent portfolio management. , 2015, , .		1
114	Patent portfolio analysis of e-payment services using technical ontology roadmaps. , 2016, , .		1
115	Computer supported comparative analysis of technology portfolios for LTE-A patent pools. , 2016, , .		1
116	Using Machine Learning Approach to Identify Synonyms for Document Mining. Advances in Transdisciplinary Engineering, 2019, , .	0.1	1
117	VR-Enabled Chatbot System Supporting Transformer Mass-Customization Services. Advances in Transdisciplinary Engineering, 2020, , .	0.1	1
118	A VR-Enabled Chatbot Supporting Design and Manufacturing of Large and Complex Power Transformers. Electronics (Switzerland), 2022, 11, 87.	3.1	1
119	A KNOWLEDGE BASE SYSTEM FOR PREDICTING MERCHANDISE INVESTMENT RETURNS. Applied Artificial Intelligence, 1993, 7, 207-221.	3.2	0
120	Planning Merchandise Investments Using Fuzzy Optimization. Journal of Intelligent and Fuzzy Systems, 1993, 1, 189-197.	1.4	0
121	Reengineer restaurant set-meal design process. , 2010, , .		0
122	Analysis of IP-related court decisions using e-discovery - a case study of Apotex Pty. Ltd. v Sanofi-Aventis Australia Pty. Ltd. & Ors. International Journal of Intellectual Property Management, 2016, 9, 16.	0.3	0
123	Patent Analytics of Robotics Technology for Intelligent Manufacturing in the Semiconductor Industry. , 2018, , .		0
124	Detecting Trademark Image Infringement Using Convolutional Neural Networks. Advances in Transdisciplinary Engineering, 2019, , .	0.1	0
125	Virtual Reality Exposure Therapy and Physiological Data Analysis for Treatment of Stress Disorders. Advances in Medical Technologies and Clinical Practice Book Series, 2022, , 143-170.	0.3	0