



السيرة الذاتية

الاسم: يوسف إسماعيل محمد احمد المشهداني

تاريخ الميلاد: 1973/02/15

الحالة الزوجية: متزوج

التخصص العام: الهندسة الكهربائية والالكترونية

التخصص الدقيق: أنظمة السيطرة الذكية

الدرجة العلمية الحالية: أستاذ

تاريخ الحصول عليها: 2021/02/23

الوظيفة الحالية: تدريسي (رئيس اللجنة العلمية / قسم الهندسة الكهربائية).

عنوان العمل: جامعة الانبار / كلية الهندسة / قسم الهندسة الكهربائية.

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- H-index in Scopus / 17
- H-index in Google Scholar / 21
- H-index in Web. of Science / 11
- <https://www.uoanbar.edu.iq/staff-page.php?ID=1670>



أولاً: المؤهلات العلمية.

التاريخ الحصول عليها	الكلية	الجامعة	الشهادة العلمية
1995/07/14	كلية الرشيد للهندسة والعلوم	التكنولوجيا / العراق	بكالوريوس
1999/11/21	كلية الرشيد للهندسة والعلوم	التكنولوجيا / العراق	الماجستير
2010/02/02	كلية الرشيد للهندسة والعلوم	التكنولوجيا / العراق	الدكتوراه
2013/02/06	مركز (UMPEDAC)	ملايا (UM) / ماليزيا	ما بعد الدكتوراة

ثانياً: التدرج الوظيفي.

ت	العنوان الوظيفي	جهة العمل	الفترة من - الى
1	مهندس مختبر	كلية الرشيد للهندسة والعلوم	1999 - 1995
2	رئيس قسم الفحوصات الكهربائية	الفحص والقبول	2002 - 1999
3	طالب دكتوراه	الجامعة التكنولوجية / كلية الرشيد	2005 - 2002
4	تدريسي	جامعة الانبار / كلية الهندسة	2011 - 2005
5	ما بعد الدكتوراه	جامعة ملايا / ماليزيا	2013 - 2011
6	تدريسي	جامعة الانبار / كلية الهندسة	2013 - الى الان

ثالثاً: التدريس الجامعي.

ت	الجهة (المعهد / الكلية)	الجامعة	الفترة من - الى
1	كلية الهندسة الثانية / قسم الميكاترونك	بغداد	2002/10/01 - 1999/10/01
2	كلية ابن الهيثم / قسم علوم الحاسبات	بغداد	2005/10/01 - 2002/10/01
3	كلية الهندسة / قسم الهندسة الكهربائية	الانبار	2011/11/22 - 2004/10/01
4	مركز (UMPEDAC)	ملايا / ماليزيا	2013/03/15 - 2011/11/23
5	كلية الهندسة / قسم الهندسة الكهربائية	الانبار	2004/03/15 - الى الان

رابعاً: المقررات الدراسية التي قمت بتدريسها.

ت	القسم	المادة	السنة
1	الميكاترونيك	دوائر كهربائية	2002 - 1999
2	الميكاترونيك	الالكترونيك / المرحلة الثالثة	2002 - 1999
3	الميكاترونيك	CAD / المرحلة الخامسة	2002 - 2001
4	علوم الحاسبات	برمجة / المرحلة الاولى	2005 - 1999
5	علوم الحاسبات	هيكلية الحاسبة / المرحلة الاولى	2005 - 1999
6	الهندسة الكهربائية	برمجة / المرحلة الاولى	2010 - 2005
7	الهندسة الكهربائية	برمجة / المرحلة الاولى	2010 - 2005
8	الهندسة الكهربائية	هيكلية الحاسبة / المرحلة الاولى	2010 - 2005
9	الهندسة الكهربائية	الالكترونيك / المرحلة الثانية	2010 - 2006
10	الهندسة الكهربائية	دوائر كهربائية / المرحلة الثانية	2010 - 2006
11	الهندسة الكهربائية	الالكترونيك / المرحلة الثالثة	2010 - 2008
12	الهندسة الكهربائية	تحليلات عددية / المرحلة الثالثة	2012 - 2008
13	الهندسة الكهربائية	رياضيات / المرحلة الاولى	2009 - 2005
14	الهندسة الكهربائية	رياضيات / المرحلة الثانية	2010 - 2006
15	الهندسة الكهربائية	رياضيات متقدمة / المرحلة الثالثة	2011 - 2009
16	الهندسة الكهربائية	نظرية سيطرة / المرحلة الرابعة	2024 - 2009
17	الهندسة الميكانيكية	سيطرة متقدمة / ماجستير	2020- 2019
18	مركز اليومبيداك / ملایا	شبكات عصبية / ماجستير	2012-2011

خامساً: (الاطاريح ، الرسائل) التي أشرف عليها:

السنة	القسم	اسم الأطروحة أو الرسالة	ت
تحت الاشراف	دكتوراه / جامعة صفاقص - تونس	Design and Implement for Smart Health Management System based on Cloud Computing	1
تحت الاشراف	دكتوراه / الجامعة المستنصرية - قسم الهندسة الكهربائية	Design and Analysis for Smart Health Management System Based on Optimal Communication Framework	2
تحت الاشراف	دكتوراه / جامعة (UKM) / ماليزيا	Diagnosis of COVID-19 Performance in Human Body by Optical Biosensor based on Image Processing	3
تحت الاشراف	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implementation of Speech Unit Based on Electroencephalography (EEG) Signal	4
تحت الاشراف	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implementation of Correction Unit for Foot Drop Disease Based on Electromyography (EMG) Signal	5
2024	دكتوراه / جامعة صفاقص - تونس	Real time implementation for solar inverter connected to smart grid	6
2023	دكتوراه / علوم الحاسبات وتكنولوجيا المعلومات / جامعة الانبار	Design and Implementation of Optimal Robot Trajectory for Biomedical Applications Based on Metaheuristics	7
2023	دكتوراه / علوم فيزياء / جامعة الانبار	High Performance for Detection and Classification of Real Time Surface Electromyography (SEMG) Signal Based on Nanotechnology	8

2023	دكتوراه / جامعة (UKM) / ماليزيا	Detection and Classification of Coronavirus from Optical Imaging Using Super Pixel Segmentation with a Full Recurrent Neural Network Technique	9
2022	دكتوراه / علوم فيزياء / جامعة الانبار	Design and Implementation of Nuclear Magnetic Resonance (NMR) Model Using for Diagnostic Process Based on Physical Parameters	10
2022	ماجستير / هندسة كهربائية / جامعة جيدك / تركيا	Design and Analysis of Intelligent Controller for Grid Power Injection through Electrical Distribution Networks	11
2024	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implement of Human Arm by the Artificial Muscles Based on Electromyography (EMG) Signal	12
2024	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implement of Human Arm Control System Based on Electroencephalography (EEG) Signal	13
2023	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implement Intelligent Services Robot Based on Voice Recognition Control with IoT Techniques	14
2023	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Implement Real Artificial human Hand based on Surface EMG Signal	15
2022	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implementation of Artificial lower human arm based on an EMG Controller	16
2021	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Optimal Human Robot Arm Trajectory Based on" Electromyography (EMG) Signal	17
2020	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implement of Smart Wheelchair By using Voice Recognition Control System	18
2020	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implementation of high-performance Electrical Car based Solar Technology	19

2020	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design And Implementation of Step Generator for Main Gate with Intelligent System	20
2020	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Real Time Human Robot Arm Interaction Based on Electromyography (EMG) Signal	21
2013	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Study and Analysis of Automatic Irrigation System for Garden Zone Based on programmable Microcontroller by Using Solar Energy	22
2013	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implementation of Submarine Robot with Searching Camera Based on Microcontroller	23
2013	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implement Display Unit for Teeth Surgery Processes	24
2013	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implement New Structure of Remote Control for LCD Display Based on Microcontroller	25
2012	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Practical Implementation for Computerized Industrial Application with PUMA 560 Robot Based on Microcontroller	26
2011	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implementation of Microcontroller (PIC) based Stepper M	27
2011	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implementation of Analogue Electronic Tester Board	28
2011	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implementation of Analogue Electronic Tester Board	29
2010	بكالوريوس / جامعة الانبار / قسم الهندسة الكهربائية	Design and Implementation of Microcontroller (PIC) based Digital Clock	30
2001	بكالوريوس / جامعة بغداد / قسم هندسة الميكاترونكس	Design and Analysis of PID control for Dynamic System	31

سادساً: المؤتمرات والندوات العلمية التي شارك فيها.

ت	العنوان	السنة	مكان انعقادها	نوع المشاركة (بحث / بوستر حضور)
1	Comprehensive Evaluation of Drone Control Systems – PID vs. High-Speed Switching Controllers	2024	العراق	نشر بحث
2	Q-Learning for Path planning in Complex Environments: A YOLO and Vision-based Approach	2024	العراق	نشر بحث
3	Simulation and Analysis of High-Performance Temperature Control System for Buildings Based on Conventional Controller	2024	ماليزيا	نشر بحث
4	Real-Time Services Robot with an Intelligent System Based on a Radio Frequency Identification Unit.	2024	الامارات العربية المتحدة	نشر بحث
5	Design and Analysis of Synchronous and Asynchronous Buck Converters in Electrical Applications	2024	الامارات العربية المتحدة	نشر بحث
6	Implement of Intelligent Controller for 6DOF Robot Based on a Virtual Reality Model	2023	العراق	نشر بحث
7	Optimal Stability of Brushless DC Motor System Based on Multilevel Inverter	2023	العراق	نشر بحث
8	High-Performance of Mobile Robot Behavior Based on Intelligent System	2023	تركيا	نشر بحث
9	Analysis of High Performance of Separately Excited DC Motor Speed Control Based on Chopper Circuit	2023	تركيا	نشر بحث
10	Design and Implement Services Robot Based on Intelligent Controller with IoT Techniques	2023	تركيا	نشر بحث
11	Implement of Intelligent Controller for 6DOF Robot Based on a Virtual Reality Model	2023	تركيا	نشر بحث

نشر بحث	العراق	2023	Optimal Stability of Brushless DC Motor System Based on Multilevel Inverter	12
نشر بحث	العراق	2023	Enhancement of the measurement electromyography (EMG) signal based on probe nano metal coating	13
نشر بحث	تركيا	2023	Enhancement of the measurement electromyography (EMG) signal based on probe nano metal coating	14
نشر بحث	تركيا	2023	Predicting Medicine Adherence with Precision: An MLP-Based Approach for Personalized Healthcare	15
نشر بحث	تركيا	2023	Internet of Medical Things (IoMT) for Premature Estimate of Epileptic Seizures	16
نشر بحث	تركيا	2023	High Performance of Smart Refrigerator System Based on IoT Technique	17
نشر بحث	العراق	2023	Implement of Intelligent Controller for 6DOF Robot Based on a Virtual Reality Model	18
نشر بحث	العراق	2022	Optimal results presentation style for engineering research article	19
نشر بحث	العراق	2022	Global Prospects, Challenges, Progress and Environmental Impact of Solar Energy in Iraq	20
نشر بحث	العراق	2022	Study and analysis of magnetic levitation system via ANFIS controller	21
نشر بحث	العراق	2022	Modeling and Analysis of Optimal Trajectory for 6-DOF Robotic Arm	22
نشر بحث	العراق	2022	Optimal Results Presentation Style for Engineering Research Article	23
نشر بحث	العراق	2021	Human-Robot Arm Interaction Based on Electromyography Signal	24

نشر بحث	العراق	2021	An Analysis Review : Real Measurement for Surface Electromyography (sEMG) Signal	25
نشر بحث	العراق	2020	Optimal DC machines performance based on intelligent controller	26
نشر بحث	العراق	2019	Real Time Modified Programmable Universal Machine for Assembly (PUMA) 560 with Intelligent Controller	27
نشر بحث	العراق	2019	Intelligent Controller for 7-DOF Manipulator Based upon Virtual Reality Model	28
نشر بحث	العراق	2019	Direct Torque Control of Variable Speed IM with DSP Application	29
نشر بحث	العراق	2019	Design intelligent solar cell tester system based on microcontroller with handling robot	30
نشر بحث	العراق	2019	Real Time Model of a Lock Gate System upon Fingerprint with Microcontroller	31
نشر بحث	العراق	2015	Gas Turbine bearing and vibration classification of using multi-layer Neural Network	32
نشر بحث	الإمارات العربية المتحدة	2014	Design, Simulation and Analysis of High Performance for Standalone Photovoltaic System	33
نشر بحث	العراق	2014	High Performance DC-DC Boost Converter Based on Tuning PI controller	34
نشر بحث	العراق	2013	High-Performance of Power System Based Upon ANFIS Controller	35
نشر بحث	العراق	2013	Design and Simulation of Dual Axis Solar Tracker for Optimum Solar Energy Absorption	36
نشر بحث	العراق	2013	Design and Analysis for High Performance Synchronized Inverter with PWM Power Control	37

نشر بحث	العراق	2013	Novel Design and Real Implementation of Portable Charger Based on Low Power PV Energy System	38
نشر بحث	العراق	2013	Novel Sliding-Mode Chatter-less Brushless DC (BLDC) Motor Controller	39
نشر بحث	العراق	2012	SCARA Robot: Modelled, Simulated, and Virtual-Reality Verified	40
نشر بحث	العراق	2011	Design and Analysis of High-Performance Home Solar Energy System	41
نشر بحث	العراق	2011	Best Choosing of Rule Set for Adaptive Neuro-Fuzzy Inference System (ANFIS)	42
نشر بحث	العراق	2011	Measurement of human leg joint angle through motion based on electromyography (EMG) signal	43
نشر بحث	العراق	2011	Modeling and Simulation of Adaptive Neuro-Fuzzy Controller for Chopper-Fed DC Motor Drive	44
نشر بحث	العراق	2010	A Posture of 6-DOF Manipulator by Locally Recurrent Neural Networks (LRNNs) Implement in Virtual Reality	45
نشر بحث	العراق	2010	Inverse Kinematics Problem (IKP) of 6-DOF Manipulator By Locally Recurrent Neural Networks (LRNNs)	46
نشر بحث	العراق	2010	Planer Tracking of Human Arm by Analytical Solution Implemented with GUI Package	47
نشر بحث	العراق	2009	Analytical Solution for Anthropomorphic Limbs Model (IK of Human Arm)	48
نشر بحث	العراق	2009	Locally Recurrent Neural Network (LRNNs) Controller for Dynamical System	49
نشر بحث	العراق	2005	Face Recognition Based on Full Recurrent Neural Network	50

نشر بحث	العراق	2002	6- D.O.F Trajectory For S.S.M with Quaternion Transformation	51
نشر بحث	العراق	2001	Neural Controller for Time Varying Dynamical System Based on Finite Recurrent Back-propagation (FRBP) Network	52
نشر بحث	العراق	2000	3-D Neuro - Controller for BTT - CLOS Missile	53

■ سابعا: الأنشطة العلمية الأخرى.

خارج الكلية	داخل الكلية
المشاركة بصفة محاضر في الورش الوزارية بخمس ورش مع جهاز الاشراف المركزي	رئيس تحرير مجلة الانبار للعلوم الهندسية
المشاركة في أربعة لجان استحداث للأقسام العلمية في الجامعات الاهلية	رئيس اللجنة العلمية في القسم لمدة ستة سنوات متتالية
المشاركة في اكثر من عشرة ورش علمية مع منصة اريد العلمية وحاصل على مرتبة عالم في المنصة عام 2023	المشاركة في عشرات الندوات العلمية التي تنظمها الكلية بصفة محاضر
حاصل على المرتبة العضوية المتميزة في المؤسسة الامريكية لمهندسي الكهرباء والالكترونيك (Senior Member IEEE)	المشاركة في عضوية اللجان العلمية في المؤتمرات العلمية
عضو هيئة تحرير مجلة النهرين الهندسية	المشاركة بصفة محاضر في ورش التعليم المستمر لأكثر من عشرة سنوات
عضو هيئة تحرير مجلة العلوم الصرفة في جامعة الكتاب	المشاركة في تطوير المختبرات العلمية من خلال تصنيع الأجهزة التعليمية في الأعوام 2010، 2013، 2019

ثامناً: المشروعات البحثية في مجال التخصص لخدمة البيئة والمجتمع أو تطوير التعليم .

ت	أسم البحث	محل النشر	السنة
1	Irrigation intelligence - enabling a cloud-based Internet of Things approach for enhanced water management in agriculture	Environmental Monitoring and Assessment Journal	2024
2	Next-generation nanophotonic-enabled biosensors for intelligent diagnosis of SARS-CoV-2 variants	Science of the Total Environment Journal	2023
3	Design intelligent solar cell tester system based on microcontroller with handling robot	International Journal of Computer Aided Engineering and Technology	2022

تاسعاً: عضوية الهيئات العلمية المحلية والدولية.

- ✓ عضو متميز في المؤسسة الامريكية لمهندسي الكهرباء والالكترونيك (SMIEEE).
- ✓ عضو في منصة اريد العلمية بمرتبة عالم.
- ✓ عضو الهيئة الإدارية في منظمة الصداقة الدولية.
- ✓ رئيس هيئة تحرير مجلة الانبار للعلوم الهندسية.
- ✓ عضو هيئة تحرير مجلة النهرين الهندسية / جامعة النهرين.

عاشراً: كتب الشكر، الجوائز وشهادات التقدير.

ت	كتاب الشكر او الجائزة أو الشهادة	الجهة المانحة	السنة
1	جائزة المرتبة الأولى للملتقى الابداع الطلابي / محور الابتكار والابداع في العلوم التطبيقية	المجلس العربي للتدريب والابداع الطلابي / اتحاد الجامعات العربية	2024

2024	المجلس العربي للتدريب والابداع الطلابي / اتحاد الجامعات العربية	جائزة المرتبة الثانية للملتقى الابداع الطلابي / محور الابتكار والابداع في العلوم التطبيقية	2
2024	جامعة (UniMAP) الماليزية	جائزة أفضل تقديم والقاء للبحث العلمي في المؤتمر الدولي المشترك الثاني في الرياضيات والإحصاء والهندسة	3
2024	جامعة (UKM) الماليزية	جائزة أفضل بحث في المؤتمر الدولي الخامس للطاقة الكهربائية الناشئة والإلكترونيات وتقنيات الحوسبة	4
2024	السيد رئيس جامعة الانبار المحترم	كتاب شكر وتقدير عدد ثمانية	5
2023	السيد رئيس جامعة الانبار المحترم	كتاب شكر وتقدير عدد خمسة	6
2023	السيد مدير جهاز الاشراف المركزي المحترم	كتاب شكر وتقدير عدد ثلاثة	7
2022	السيد رئيس جامعة الانبار المحترم	كتاب شكر وتقدير عدد عشرة	8
2022	السيد مدير جهاز الاشراف المركزي المحترم	كتاب شكر وتقدير عدد اثنين	9
2021	السيد رئيس جامعة الانبار المحترم	كتاب شكر وتقدير عدد اربعة	10
2020	السيد رئيس جامعة الانبار المحترم	كتاب شكر وتقدير عدد ثلاثة	11

عادي عشر: البحوث المنشورة.

سنة النشر	عنوان البحث	ت
2024	Optimal Control Strategy for Power Management Control of an Independent Photovoltaic, Wind Turbine, Battery System with Diesel Generator	1
2024	COVID-19 IgG antibodies detection based on CNN-BiLSTM algorithm combined with fiber-optic dataset	2
2024	Synergizing Nanomaterials and Artificial Intelligence in Advanced Optical Biosensors for Precision Antimicrobial Resistance Diagnosis	3
2024	Improvement of surface electromyography signal by nano-metals thin-film deposition	4
2024	Nanophotonic catheters: A lens into the body for biosensing and biomedical imaging	5
2024	Irrigation intelligence enabling a cloud-based Internet of Things approach for enhanced water management in agriculture	6
2024	State-of-the-art telemodule-enabled intelligent optical nano-biosensors for proficient SARS-CoV-2 monitoring	7
2024	Analysis of Real Measurement for EMG Signal Based on Surface Traditional Sensors	8
2024	Design and Analysis of a Hybrid Intelligent SCARA Robot Controller Based on a Virtual Reality Model	9
2024	Dual Performance Optimization of 6-DOF Robotic Arm Trajectories in Biomedical Applications	10
2023	Density estimation of SARS-CoV2 spike proteins using super pixels segmentation technique	11
2023	Design and Analysis of ANFIS Controller for High Accuracy Magnetic Levitation (ML) System	12
2023	Next-generation nanophotonic-enabled biosensors for intelligent diagnosis of SARS-CoV-2 variants	13

2023	Uncovering the morphological differences between SARS-CoV-2 and SARS-CoV based on transmission electron microscopy images	14
2022	Design and Simulation of Modified Type-2 Fuzzy Logic Controller for Power System	15
2022	An Efficient Solution of Phase Interferometry Ambiguity using Zero-Crossing Technique	16
2022	Describing Function Approach with PID Controller to Reduce Nonlinear Action	17
2022	Review of Intelligent Control Systems with Robotics	18
2022	Design intelligent solar cell tester system based on microcontroller with handling robot	19
2022	Application of Artificial Neural Networks as Design Tool for Hot Mix Asphalt	20
2022	Photonics enabled intelligence system to identify SARS-CoV 2 mutations	21
2022	SARS-CoV-2 Morphometry Analysis and Prediction of Real Virus Levels Based on Full Recurrent Neural Network Using TEM Images	22
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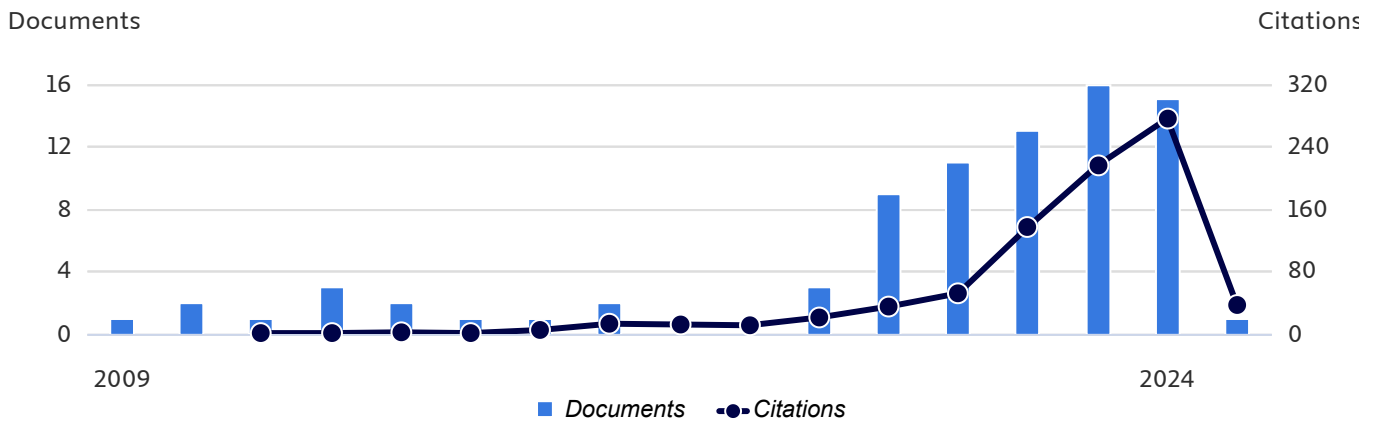
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