

Curriculum Vitae (6-page Format)

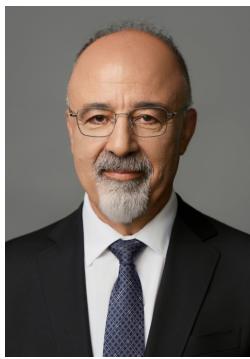
December 2025

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I. ACADEMIC BACKGROUND

Degrees	Institution	Country	Month/Year
Ph.D.	Université de Sherbrooke	Canada	09/1990
M.Sc.A.	Université de Sherbrooke	Canada	12/1986
B.Sc.	Université Laval	Canada	12/1983

II. EMPLOYMENT HISTORY

Position	Dates	Organisation
Emeritus Professor	06-20/...	Electrical Engineering, Polytechnique Montreal
Chair Professor	01-19/...	School of Engineering, Westlake University
Professor	06-98/...	Electrical Engineering, Polytechnique Montreal
Director	06-99/19	ReSMiQ interuniversity research center, Quebec
Adjunct Professor	09-11/...	Electrical & Computer Engineering, Laval University
Advisory Professor	09-06/...	School of Microelectronics, Shanghai University
Adjunct Professor	09-17/...	School of Computer Sciences, Wuhan University
Canada Research Chair	04-01/06-15	Electrical Engineering, Polytechnique Montreal
Director	06-96/05-04	Electronic Division, Ecole Polytechnique
Adjunct Professor	11-95/08-98	Electrical Engineering, McGill University
Associate Professor	06-94/05-98	Electrical & Computer Eng., École Polytechnique
Assistant Professor	09-91/05-94	Electrical & Computer Eng., École Polytechnique
Post-Doctoral Fellow	01-91/08-91	Biomedical Engineering, McGill University

III. HONORS AND AWARDS

2025 Chen Tingzuo Immunology Science Award for contributions to superantigen role for immunolgy;
2025 Distinguished Fellow of the International Engineering and Technology Institute (IETI);
2025 Medal of merit of Lebanese Emigrants from the President of Lebanon for outstanding achievements;
2024 Fellow of the International Artificial Intelligence Industry Alliance (AIIA)
2022 Fellow of the Royal Society of Sciences of Canada (FRSC)
2022 Chinese Government Friendship Award;
2022 Hangzhou Outstanding Talent Award;
2021 Chinese Zhejiang Westlake Friendship Award
2019 Chinese Hangzhou Qianjiang Friendship Ambassador Award

2019 National High-level Talent Program Award
2018-... Elected Vice-President Publications of the IEEE Circuits and Systems Society;
2016 Recipient of one of the five awards of the Council of the Arab League Ambassadors;
2015 Recipient of the Shanghai City Award for International Collaboration;
2014 Recipient of the Polytechnique Montreal First Research and Innovation Award;
2013 Recipient of the Queen-Elizabeth II Diamond Jubilee Medal;
2013-... Member of the Board of Governors of the IEEE Circuits & Systems Society;
2012 Recipient of the ACFAS - Jacques-Rousseau Award for Multidisciplinarity Research contributions;
2012-... Advisory Professor at Shanghai JiaoTong University, Shanghai, China;
2012 Member of the international selection committee of the biomedical researcher of the year;
2012 President of the Analog Signal Processing Committee of the IEEE Circuits & Systems Society;
2011-12 Chair of the Distinguished Lecture Program of the IEEE Circuits and Systems Society;
2011-12 Distinguished Lecturer of the IEEE Solid-State Circuits Society;
2010 Recipient of the Desjardins intercultural office achievement Award;
2008 Elected Officer of the National Order of Quebec for outstanding contributions;
2008 Recipient of the Lebanese Embassy in Canada Achievements Award;
2007 Fellow of the Engineering Institute of Canada for contributions to Engineering practices;
2006 Recipient of the American University of Science and Technology Achievements Award;
2006-10 Honorary Professor at Shanghai JiaoTong University, China;
2005 Recipient of the J. A. Bombardier Award for Research innovation and technology transfer;
2005 Medal of Honor from the President of Lebanon for outstanding achievements;
2005-07 Elected President of the BiOCAS technical committee of the IEEE Circuits & Systems Society;
2004 Recipient of the Montreal Lebanese Islamic Center's Award for career achievement;
2004 Fellow of the IEEE for my contributions to implantable medical devices;
2004-06 Elected Distinguished Lecturer of the IEEE Circuits & Systems Society;
2004-... Invited Professor at Université de Metz, France;
2003 Recipient of the Barbara Turnbull Award from the Canadian Institutes of Health Research (CIHR);
2003 Scientific Achievement Award from the American Biographical Institute;
2002 Recipient of the Canadian Islamic Congress's Award for career achievements;
2001-03 Founder and President of Cortivision, a startup company;
2001 Fellow of the Canadian Academy of Engineering;
2001 One of my projects is among the top ten discoveries of the Year by Québec Science Magazine;
2000-... Awarded Canada Research Chair in Smart Medical Devices;
1999 Invited Professor at Université de Sfax, Tunisia.

IV. OTHER AWARDS

2025 First place, best student poster award from IEEE MIND Conference;
2025 First place, best Wicas paper award from IEEE ISCAS Conference;
2025 First place, best Biocas student paper award from IEEE ISCAS Conference;
2023 First place, best student paper award from IEEE AICAS Conference;
2020 Best Springer Scientific Reports' journal paper award by Canadian Epilepsy League;
2019 First place demonstration award from IEEE Sensors competition;
2014 Co-recipient of the 1st best paper award from IEEE-SBCCI 2014;
2014 Co-recipient of the 1st place award from MDETEQ State competition;
2013 Co-recipient of the best ReSMiQ Innovation Day Award;
2012 Co-recipient of the best poster presentation at the 11th MIOMD Conference;
2010 Co-recipient of the best Texpo project award from CMC Microsystems annual workshop;
2010 Co-recipient of the best student science and society award from ACFAS 2010;
2010 Co-recipient of the best poster presentation award from ReSMiQ-ACFAS 2010;
2008 Co-recipient of the Best IEEE Solid-State Society Chapter of the year;
2008 Co-recipient of the 1st best paper award from IEEE NEWCAS 2008;
2008 Co-recipient of the 3rd best paper award from IEEE NEWCAS 2008;
2006 Nominated one of best Electrical Engineering Professors of the year at Ecole Polytechnique;

2004 Co-recipient of Myril B. Reed Best Paper Award of the 46th IEEE-MWSCAS.
 1997 Award for academic excellence awarded by École Polytechnique de Montréal;
 1989 Medal of Merit for academic excellence by the Université de Sherbrooke during my Ph.D. studies.

V. OTHER DISTINCTIONS AND ACHIEVEMENTS

2025 General Co-Chair of the IEEE International Conference on Electronics, Circuits and Systems (ICECS);
 2025 General Co-Chair of the IEEE International Conference Biomedical Circuits and Systems (BioCAS);
 2023 General Chair of the IEEE International Conference on AI Circuits and Systems (AICAS);
 2022-.... General Co-Chair of the International Conference on Microelectronics (ICM);
 2022-.... Honorary Chair of the International Conference on Biomedical Engineering and Applications (ICBEA);
 2022 General Co-Chair of the IEEE International AI Circuits and Systems Conference (AICAS);
 2021-.... Honorary Chair of the IEEE International NEWCAS flagship Conference (NEWCAS);
 2020 General Chair of the IEEE Engineering, Medicine and Biology Society Conference;
 2018 General Chair of the IEEE International Life Sciences Conference;
 2018-19 General Co-Chair of the IEEE-International AICAS, and ISOCC;
 2016 General Chair of the IEEE International Symposium on Circuits and Systems;
 2015-.... Editor-in-chief of the IEEE Transactions on Biomedical Circuits and Systems Journal;
 2015-.... General Co-Chair of the IEEE-International SBB;
 2013-.... Associate Editor of the IEEE Transactions on Biomedical Engineering Journal;
 2013-.... Chair of the IEEE Biomedical Engineering Award committee;
 2012-.... General co-Chair of the annual IEEE NEWCAS Conference;
 2012-.... General co-Chair of the annual IEEE Int'l Conf. on Microelectronics;
 2011-.... Editorial Board, the IEEE Life Sciences Portal;
 2011-.... General Chair of the IEEE Int'l Conf. on Electronics, Circuits and Systems;
 2011-.... General co-Chair of the IEEE Int'l Conf. on Microelectronics;
 2011-12 Guest Editor of the IEEE J. of Emerging and Selected Topics SI on Brain-Machine Interfaces;
 2011 Member of the Quebec's technology mission to India;
 2011 General Chair of the Brain-Computer Interface Workshop (CAS-FEST 2010);
 2011 General Co-Chair of the ACFAS-ReSMiQ's Workshop;
 2010 Member of the Quebec's technology mission to China;
 2010-.... Advisory Board, Int'l Symposium on Medical Information and Communication Technology;
 2010-13 Deputy Editor-in-Chief of the IEEE Transactions on Circuits and Systems II (TCAS-II);
 2010-.... Advisor for Springer Publisher in the field of Analog and biomedical books;
 2010-.... General Chair of the ACFAS-ReSMiQ's Workshop;
 2009-.... Technical Program Co-Chair of the Int. Biomedical Circuits and Systems (BiOCAS2009);
 2009-.... Member of the International Editorial Board of the Journal of Healthcare Engineering;
 2009 Elected Toronto, Madison and Stanford Who's Who;
 2008-.... Member of the Editorial Board of the International Journal of Circuit Theory and Applications;
 2008-.... Member of the NSERC scholarship committee;
 2008 Member of the Quebec technology mission to Taiwan;
 2007 Member of FRSQ-FQRNT new joint support for R&D medical technology committee;
 2007-.... Member of the Steering Committee of the IEEE Trans. on Biomedical Circuits and Systems Journal;
 2007-14 Associate Editor of the IEEE Transactions on Biomedical Circuits and Systems Journal;
 2007 Member of Canada Bio & nanotechnology mission to India;
 2007-.... Member of the International Advisory Board of the Emirates Journal of Engineering Research (EJER);
 2007-.... General Chair of the Int. Biomedical Circuits and Systems (BiOCAS2007);
 2007-.... General Chair of the Int. Midwest Symposium on Circuits and Systems (MWSCAS2007);
 2007 Member of the scientific committee of Marseille IMNP institute;
 2006-.... Member of Prompt Scientific Coordination Committee;
 2006 Technical program co-Chair of the Int. Midwest Symposium on CAS (MWSCAS2006);
 2006-.... General Chair of the IEEE International NEWCAS conference
 2006 General Co-Chair of the IEEE Int. Conf. On Electronics, Circuits and Systems (ICECS2006);
 2006 Co-Chair of the IEEE Int. Computer Architecture for Machine Perception and Sensors (CAMPSC2006);

2005 Member of the Quebec technology mission to China.
 2005-07 Member of the International Biotechnology council, IEEE CAS representative;
 2005 General Chair of the Int. Functional Electrical Stimulation Society Conference (IFESS2005);
 2004-07 Member of the Evaluation Committee of the Institut National de Recherche Scientifique;
 2004 Editor of the Springer Mixed-signal letters for the Americas;
 2004-... Member of the Editorial Board of the Journal of Applied Sciences;
 2004-... Guest Editor of the Kluwer Analog integrated Circuits and Signal Processing Journal;
 2004-... Member of the Canadian Arthritis Network (Canadian Network of Centre of Excellence);
 2003-... Member of the Board of Directors of Montreal rehabilitation interdisciplinary research ctr. (CRIR);
 2003-... Member/Chair of IEEE Technical Program Committee (ISCAS, MWSCAS, ICM, ICSICT, etc);
 2003-... Investigator of a \$21M Pan-Canadian grant application from CFI to acquire an EDA Laboratory;
 2003-05 Vice-President of the BiOCAS technical committee of IEEE Circuits & Systems Society;
 2002-... Founder & general chair of the IEEE International NEWCAS Conference;
 2002-06 Member of the Board of Directors of the Int. Functional Electrical Stimulation Society (IFESS);
 2001-... Member of the scientific coordination committee of Victhom Human Bionic;
 2001-05 Member of the scientific coordination committee of Prompt-Quebec;
 2001-... Guest Editor of the Kluwer/Springer Analog integrated Circuits and Signal Processing Journal;
 2000-... Interviews with news media: newspapers, magazines, TV, and radio (prestigious TV reports);
 2000 Recipient of a major CFI grant (\$8.2M) to establish an advanced microelectronics assembly facility;
 1999-... Founder and Chair of the IEEE Solid-State Circuits Society (SSCS) Montreal Chapter;
 1999-... Scientific Advisor to several Canadian companies (Victhom Human Bionic, Scanview, etc);
 1988-90 Ph.D. scholarship (12k\$/year), FRSQ (Fonds de la Recherche en Santé du Québec).
 1995-... Co-Founder of the IEEE Int. Conf. on Electronics, Circuits and Systems (ICECS);
 1994-... Founder and director of the Polystim Neurotechnologies Laboratory;
 1991-... General Chair / Co-Chair of IEEE Int. Conferences (ICECS, ICM, NewCAS, etc.).

VI. SUMMARY OF RESEARCH CONTRIBUTIONS

Citations: 20350, H-Index: 68

Publications (Summary)	Last 6 years	Total
Refereed Journal publications (published/accepted)	171	417
Refereed conference papers	120	639
Invited talks / Keynote speeches	133	410
Patents (Awarded and Pending)	51	78
Books and book chapters	13	27
Refereed abstracts and posters	23	124
Technical reports count and list are not included in this CV	125	315
Total (Publications)	511	1695

Students and Other Personal Supervision (Appendix D)	Supervised	Completed
Ph.D.	15	73
M.A.Sc.+M.Eng.	0	132
Postdoctoral Fellows, Research assistants and associates, Hosted faculties	19	109
Hosted Invited Faculties	0	11
Undergraduate training R&D projects	0	366
Total (Students and Other Personal)	39	706

Note 1: Samples of recently published papers (see next 2 pages please)

LIST OF RECENT PUBLICATIONS (December 2025)

(Refereed Journal Publications: Published and Accepted)

- [417] WANG F., CAO F., YANG J., ANNA, JIANG M., ZHENG S., WANG Y., XIANG M., CHAI C., CHEN Y., **SAWAN M.**, DISHA B., "Enhancing Individual Calibration Classification in SSVER Based BCI with Exactly Periodic Component Analysis", Accepted to *the IEEE Transactions on Industrial Informatics*, **2025**.
- [416] WU H., TAN Z., LIU X., CHEN J., ZOU W., HOU Q., LIN S., MAO Y., YANG J., **SAWAN M.**, "Self-Adaptive Pseudo-Resistors Enabling Millisecond-Level Artifact Recovery and High-Linearity for Neural Recording Front-Ends", *IEEE Transactions on Biomedical Circuits and Systems*, Online, **2025**.
- [415] ESKANDARI R., NAWITO M., KATEBI M., KRAUSHAAR U., RICHER H., ANDERS J., BUGHARTZ J., MIRBOZIRGI A., **SAWAN M.**, "Towards Closed-Loop Neuromodulation for Type 2 Diabetes with ex vivo Validation of Beta-Cell Activity and FOPP Detection", *IEEE Transactions on Biomedical Circuits and Systems*, Online, **2025**.
- [414] FANG C., SHEN Z., LI T., ZHAO S., TIAN F., YANG J., **SAWAN M.**, "A 28nm Spiking Vision Transformer Accelerator with Dual-Path Sparse Compute Core and EMA-free Self-Attention Engine for Embodied Intelligence", *IEEE Transactions on Circuits and Systems for Artificial Intelligence (TCASAI)*, Online, **2025**.
- [413] WU D., LI S., YANG J., **SAWAN M.**, "Neuro-BERT: Rethinking Masked Autoencoding for Self-Supervised Neurological Pretraining", *IEEE Journal of Biomedical and Health Informatics*, Online, **2025**.
- [412] MACHADO M.B., LIU X., **SAWAN M.**, "Ultra-Low-Voltage Rectifiers", *IEEE Access*, Vol. 13, **2025**, pp. 205366 - 205380.
- [411] TARKHAN M., WU H., ULLAH F., **SAWAN M.**, "A Flexible High-accuracy Memristor Model Using Varactors", *IEEE Access*, Vol. 13, **2025**, pp. 217423 - 217436.
- [410] ZENG Z., CHEN Y.H., GAO X., ZHENG W., WU H., ZHU Z., YANG J., WANG C., ZHONG L., CHENG W., **SAWAN M.**, "Repetitive TMS-based Identification of Methamphetamine-Dependent Individuals Using EEG Spectra", *IEEE Sensors Journal*, Vol. 25, No. 21, **2025**, pp. 40284-40296.
- [409] ZHAO S., WANG S., WANG Z., FANG C., TIAN F., CHEN J., FU C., YANG J., **SAWAN M.**, "BoostViT: Booth-Serial Skipping and Tunable Scaling for Vision Transformers", *IEEE Transactions on Circuits and Systems - I*, Vol. 72, No. 11, **2025**, pp. 6541-6552.
- [408] LIU X., CHEN J., WU H., ZOU W., YANG J., **SAWAN M.**, "An On-Chip Reconfigurable Front-end for Ultra-Low-Power RF Energy Harvesting", *IEEE Transactions on Circuits and Systems - II*, Vol. 72, No. 11, **2025**, pp. 1495-1499.
- [407] LI H., LI D., CHEN S., HOSSAIN N.M.L., XU X., FENG Y., LU H., TROCAN M., GALAYKO D., AMARA A., **SAWAN M.**, "CCSMRI: Circular Compressed Sensing MRI", *Elsevier Biomedical Signal Processing and Control*, Vol. 111, **2025**, pp. 108355.
- [406] WANG J., LIAO Y., YANG J., **SAWAN M.**, "AI-driven and IC-enabled advanced closed-loop neuromodulation for practical clinical applications", *ELSP, Neuroelectronics*, Vol. 2, No. 2, **2025**, pp. 1-34.
- [405] ZHANG H., HUANG N., BIAN S., **SAWAN M.**, "Brain organoids-on-chip for neural diseases modeling: History, challenges and trends", *Journal of Pharmaceutical Analysis*, Vol. 15, No. 10, **2025**, pp. 101323.
- [404] ZHAO S., LI S., WU D., TIAN F., YANG J., **SAWAN M.**, "A Resource-Efficient Algorithm-Hardware Co-Design Towards Semi-Supervised Neurological Symptoms Prediction", *IEEE Transactions on Instrumentation and Measurement*, Vol. 74, **2025**, pp. 1-12.
- [403] ZHANG H., ZHAO L., HUANG N., ZHANG X., XU T., BIAN S., **SAWAN M.**, "Magnetic nanoparticles for single-neuron manipulation to design a customized neural circuit", *Bio-Design and Manufacturing*, Vol. 8, No. 4, **2025**, pp. 511-523.
- [402] ULLAH F., FREDJ Z., **SAWAN M.**, "Perovskite Quantum Dot-Based Memory Technologies: Insights from Emerging Trends", *Physical Chemistry at Nanoscale, Nanomaterials Journal*, Vol. 15, No. 11, **2025**, pp. 873.
- [401] ESKANDARI, R., **SAWAN M.**, "78.8 pJ/b, 100 Mb/s Noncoherent IR-UWB Receiver for Multichannel Neurorecording Implants", *IEEE Transactions on Biomedical Circuits and Systems*, Vol. 19, No. 3, **2025**, pp. 645-656.

[400] FREDJ Z., RONG G., **SAWAN M.**, "A Wearable electrochemical aptasensor based MOF on MOF heterostructure for multi-neurotransmitters monitoring", *Microchimica Acta*, Vol. 192, No. 6, **2025**, pp. 1-13.

[399] DARVISHI H., MOHAMMADI A., MAGHAMI MH., SADEGHI M., **SAWAN M.**, "EEG-Driven Arm Movement Decoding: Combining Connectivity and Amplitude Features for Enhanced Brain-Computer Interface Performance", *MDPI Bioengineering*, Vol. 12, No. 6, **2025**, pp. 614.

[398] SHAO X., YANG J., **SAWAN M.**, CUI W., "Bridging Biology and Robotics: Advancing Submersible Technology from Robotic to Live-fish Models", *Academia Engineering Journal*, Vol. 2, No. 2, **2025**.

[397] REHMAN UR., LU S., BINHEYAT MB., IQBAL MS., PARVEEN S., BINHEYAT Ma., AKHTAR F., ASHRAF MA., KHAN O., POMARY D., **SAWAN M.**, "Internet of Things in Healthcare Research: Trends, Innovations, Security Considerations, Challenges, and Future Strategy", *Wiley International Journal of Intelligent Systems*, Vol. 2025, No. 1, **2025**, pp. 8546245.

[396] KATEBI M., ERFANIAN A., KARAMI M.A., **SAWAN M.**, "11.2V Supply, 0.21% Biphasic Stimuli Charge Balanced Neurostimulator with Switching Spike Suppression: An Application to Intraspinal Microstimulation for Restoring Motor function", *IEEE Access*, Vol. 13, **2025**, pp. 82097-82110

[395] BINHEYAT MB., ADHIKARI D., AKHTAR F., PARVEEN S., ZEESHAN HM., ULLAH H., CHEN YH., WANG L., **SAWAN M.**, "Intelligent Internet of Medical Things for Depression: Current Advancements, Challenges, and Trends", *Wiley International Journal of Intelligent Systems*, Vol. 2025, No. 1, **2025**, pp. 6801530.

[394] FENG, C., CAO L., WU D., ZHANG E., WANG T., JIANG X., CHEN J., WU H., LIN S., Hou Q., ZHU J., YANG J., **SAWAN M.**, ZHANG Y., "Acoustic Inspired Brain-to-Sentence Decoder for Logo Syllabic Language", *Cyborg and Bionic Systems Journal*, Vol. 6, **2025**, pp. 257.

[393] GAO X., CHEN Y.-H., ZENG Z., ZHENG W., CHAI C., WU H., ZHU Z., YANG J., ZHONG L., SHEN H., **SAWAN M.**, "Specific Endophenotypes in EEG Microstates for Methamphetamine Use Disorder", *Frontiers in Psychiatry*, Vol. 15, **2025**, pp. 1513793.

[392] MOOSAEI A., MAGHAMI M.H., NEJATI A., AMIRI P., **SAWAN M.**, "A Low-Power, Low-Noise Recycling Folded-Cascode Operational Transconductance Amplifier for Neural Recording Applications", *MDPI Electronics*, Vol. 14, No. 8, **2025**, pp. 1543.

[391] SHANG S., XU Y., JIN M., JIANG H., WANG X., WANG X., CHENG Y., WANG M., ZHANG S., JI B., YANG J., WANG G., **SAWAN M.**, "Biocompatible dipeptide coated on Pt/PEDOT: PSS modified silicon probes for tissues rejection alleviation", *Sensors and Actuators B: Chemical*, Vol. 424, **2025**, pp. 136891.

[390] FREDJ Z., RONG G., **SAWAN M.**, "Recent Advances In Enzymatic Biofuel Cells To Power Up Wearable And Implantable Biosensors", *MDPI Biosensors*, Vol. 15, No. 4, **2025**, pp. 218.

[389] ZHANG H., HUANG N., BIAN S., **SAWAN M.**, "Platinum Wire-embedded Culturing Device for Interior Recording from Lollipop-shaped Neural Spheroids", *Cyborg and Bionic Systems Journal*, Vol. 6, **2025**, pp. 0220.

[388] WAHEED Z., GUI J., BINHEYAT MB., PARVEEN S., BINHEYAT MA, IQBAL MS., AYA Z., NAWABI AK., **SAWAN M.**, "A Novel Lightweight Deep Learning Based Approaches for the Automatic Diagnosis of Gastrointestinal Disease using Image Processing and Knowledge Distillation Techniques", *Elsevier Computer Methods and Programs in Biomedicine*, Vol. 260, **2025**, pp. 108579.

[387] TIAN F., CHEN J., ZHENG J., WU H., HE J., WANG X., FANG C., YAO Y., YANG J., **SAWAN M.**, TSUI CY., CHENG KT., "BioPI: An Energy Efficient and Low-Latency Neuromorphic Pipelined System with Joint Design Optimizations of Sensor-Algorithm-Processor for Wearable Healthcare", *IEEE Transactions on Circuits and Systems for Artificial Intelligence (TCASAI)*, Vol. 2, No. 1, **2025**, pp. 64-78.

[386] HAYATI H., GHANEEI-AARANI S., KARIMI M., ESKANDARI R., **SAWAN M.**, GAGNON-TURCOTTE G., GOSSELIN B., "A 400-Mbps 1.05 pJ/bit IR-UWB Transmitter for High-Density Neural Recording Systems", *IEEE Transactions on Circuits and Systems II: Express Briefs*, Vol. 72, No. 3, **2025**, pp. 484-488.

[385] CHAI C., YANG X., ZHENG Y., BIN HEYAT MB., LI Y., YANG D., CHEN Y., **SAWAN M.**, "Multimodal Fusion of Magnetoencephalography and Photoacoustic Imaging Based on Optical Pump: Trends for Wearable and Noninvasive Brain-Computer", *Biosensors and Bioelectronics*, Vol. 278, **2025**, pp. 117321.