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Designation : Senior Scientist
Qualification : Ph.D.



Research areas of interest: Hydrogen technologies, PEMFC, DMFC, Polymer electrolyte membranes, Hydrogen generation, Regeative fuel cells, Electrochemical Carbon dioxide conversion, Hydrogen purification, Metal-Air batteries

Publications

1. Imran K., **Ramya**. K., P. C. Ghosh, A. Sarkar, and Rajalakshmi N., Co-doped carbon materials synthesized with polymeric precursors as bifunctional electrocatalysts, RSC Advances, 2020, 10(59), pp. 35966-35978
2. Imran K., **Ramya**. K., P. C. Ghosh, A. Sarkar, and Rajalakshmi N., Nickel integrated carbon electrodes for improved stability, Journal of the Electrochemical Society, 2020, 167(13), 130510
3. Imran K., **Ramya**. K., P. C. Ghosh, A. Sarkar, and Rajalakshmi N., Ion Immobilized Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reaction, ACS Appl. Energy Mater. 2019, 2, 7811–7822
4. Imran K., **Ramya**. K., P. C. Ghosh, A. Sarkar, and Rajalakshmi N., Engineering of O₂ Electrodes by Surface Modification for Corrosion Resistance in Zinc-Air Batteries published in Springer Energy proceedings by 7th international conference on advances in energy research. (ICAER- 2019, IIT-Bombay Dec-12 to 14).
5. Manjula Narreddula, R. Balaji, K. **Ramya**, N. Rajalakshmi, Hydrogen production by electrochemical methanol reformation using alkaline anion exchange membrane based cell, Int. Journal of Hydrogen Energy, <https://doi.org/10.1016/j.ijhydene.2019.08.202>.
6. Bano S, Negi Y.S., **Ramya** K, Studies on new highly phosphonated poly(ether ether ketone) based promising proton conducting membranes for high temperature fuel cell, International Journal of Hydrogen Energy, 44(54),2019, 28968-28983
7. Additives in proton exchange membranes for low- and high-temperature fuel cell applications: A review(Review) Wong, C.Y.,Wong, W.Y.**Ramya** K.,Khalid, M.,Loh,

- K.S.,Daud, W.R.W.,Lim, K.L., Walvekar, R., Kadhum, A.A.H. International Journal of Hydrogen Energy Volume 44, Issue 12, 1 March 2019, Pages 6116-6135
8. Nitrogen doped graphene supported Pd as hydrogen evolution catalyst for electrochemical methanol reformation(Article)Narreddula, M.,Balaji, R.,**Ramya** K. , Rajalakshmi, N., Ramachandraiah, A. International Journal of Hydrogen Energy Volume 44, Issue 10, 22 February 2019, Pages 4582-4591
 9. Studies on nano composites of SPEEK/ethylene glycol/cellulose nanocrystals as promising proton exchange membranes Bano, S.,Negi, Y.S.,Illathvalappil, R.,Kurungot, S., **Ramya** K. Electrochimica Acta Volume 293, 10 January 2019, Pages 260-272
 10. Influence of ethyl acetate as a contaminant in methanol on the performance of Electrochemical Methanol Reformer for hydrogen production, N.Manjula, R.Balaji, K.**Ramya**, K.S.Dhathathreyan,N.Rajalakshmi, A. Ramachandraiah, Int. J.Hydrogen Energy, 43 (2018) 562-568.
 - 11.PEM Fuel Cell Technology demonstration at NLC India Ltd (NLCIL), Neyveli, Tamilnadu, India, M.Coumarane, K.**Ramya**, R.Balaji and N.Rajalakshmi, Paper submitted to Thirty First Indian Engineering Congress conference, Kolkata, Dec, 15-18, 2016.
 - 12.An improved method of water electrolysis – effect of complexing agent S.Seetharaman, R. Balaji,K. **Ramya**, K.S. Dhathathreyan, M. Velan, *J. Electrochem. Sci. Eng.* 6(3) (2016) 215-223; doi: 10.5599/jese.296 .
 - 13.Studies on development of Titanium oxide Nano Tube (TNT) based ePTFE–Nafion– composite membrane for electrochemical methanol reformation ,N.Manjula, R.Balaji, K.**Ramya**, K.S.Dhathathreyan, A. Ramachandraiah, Int. J.Hydrogen Energy, 41 (2016) 8777 -8784.
 - 14.S.Seetharaman, Raghu, S, Velan, M, **Ramya**, K & Ansari, K ‘Comparison of the performance of reduced graphene oxide and multiwalled carbon nanotubes based Sulfonated polysulfone membranes for electrolysis application’, Polymer Composites, 36(3), 475-481,2015.
 - 15.Compact and flexible hydrocarbon polymer sensor for sensing humidity in confined spaces, L.S.Ranjani, K. **Ramya**, K. S. Dhathathreyan, International Journal of Hydrogen Energy, 39, 21343-21350, 2014.

16. S. Seetharaman & R. Balaji & K. **Ramya** & K. S. Dhathathreyan & M. Velan, "Electrochemical behaviour of nickel-based electrodes for oxygen evolution reaction in alkaline water electrolysis", *Ionics*, 20 (5), pp 713-720, 2014.
17. Bifunctional electrocatalyst for oxygen/air electrodes, N. Sasikala, **K. Ramya**, K.S. Dhathathreyan, *Energy conversion and Management*, 77, 2014, 545-549.
18. Graphene oxide modified non noble metal electrode for alkaline anion exchange membrane water electrolyzers, S. Seetharaman, R. Balaji, **K. Ramya**, K.S. Dhathathreyan, M. Velan. *International Journal of Hydrogen Energy* 2013, 38, 14934-14942.
19. PEMFC membrane electrode assembly degradation study based on its mechanical properties, Ranjani Lalitha Sridhar, **Ramya Krishnan**, *International Journal of Materials Research*, Volume 104(9), 2013, 892-898.
20. Hydrogen production by alcoholysis of sodium borohydride, K. Ramya, K.S. Dhathathreyan, J. Sreenivas, S. Kumar, S. Narasimhan, *International Journal of Energy Research*, 37(14), 2013, 1889-1895. DOI: 10.1002/er.3006.
21. Electrochemically reduced Graphene oxide / Sulfonated polyether ether ketone composite membrane for electrochemical applications, S. Seetharaman*, K. Ramya, K.S. Dhathathreyan, *AIP conference Proceedings* 1538, 257 (2013).
25. Carbon Assisted water electrolysis for hydrogen generation, S. Sabareeswaran, R. Balaji, K. Ramya and K.S. Dhathathreyan, *AIP conference Proceedings* 1538, 43(2013).
26. Performance of a 1 kW Class Nafion-PTFE Composite Membrane Fuel Cell Stack, Pattabiraman Krishnamurthy, Ramya Krishnan, and Dhathathreyan Kaveripatnam Samban, *International Journal of Chemical Engineering* Volume 2012 (2012), Article ID 512803, 7 pages doi:10.1155/2012/512803.
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28. Study of a porous membrane humidification method in polymer electrolyte fuel cells, K. Ramya*, J. Sreenivas, K.S. Dhathathreyan, *International Journal of Hydrogen Energy*, vol 36(22), p14866-14872, 2011.

29. Performance of EDLCs using nafion and nafion composites as electrolyte' - C. K. Subramaniam*, C. S. Ramya and **K. Ramya** , J of Applied Electrochemistry, Volume 41, Number 2, 197-206, 2011
30. Methanol crossover studies in heat treated Nafion membranes, **K. Ramya** and K.S.Dhathathreyan, J.Memb. Sci. 311 (2008) 121-127.
31. Effects of solvents on the characteristics of Nafion/ PTFE composite membranes for fuel cell applications, **K. Ramya**, G.Velayutham, C.K.Subramaniam, N.Rajalakshmi, K.S.Dhathathreyan, J. Power Sources 160 (2006) 10-17
32. Characterization and Optimization of Low cost activated carbon Fabric as a substrate layer for PEMFC electrodes, N.Rajalakshmi, G.Velayutham, **K. Ramya**, C.K.Subramaniam and K.S.Dhathathreyan in Proceedings of Fuel Cell 2005, Third International Conference on Fuel Cell Science, Engineering and Technology, May 23-25, Ypsilanti, Michigan (FuelCELL-74182)
33. Electrochemical characteristics of titanium based hydrogen storage alloys, **K. Ramya**, N. Rajalakshmi, P.Sridhar and B.Sivasankar, J alloys and Compounds, 373, 1-2, (2004) 252-259.
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35. Poly(Phenylene oxide) based polymer electrolyte membranes for fuel cell applications, **K. Ramya** and K.S.Dhathathreyan, J applied polymer Science, 88 (2) (2003) 307-311.
36. Electrochemical studied on the effect of nickel substitution in TiMn₂ alloys, **K. Ramya**, N.Rajalakshmi, P.Sridhar and B.Sivasankar, J. Alloys and Compounds, 352 (2003), 315-324.
37. Synthesis and Characterization of sulphonated poly(Phenylene oxides) as membranes for polymer electrolyte fuel cells, B.Vishnupriya, **K. Ramya** and K.S.Dhathathreyan, J applied Polymer Science, 83(8) (2002), 192-1798.
38. Effect of surface treatment on electrochemical properties of TiMn_{1.6}Ni_{0.4} alloy in alkaline electrolyte, **K. Ramya**, N.Rajalakshmi, P.Sridhar and B.Sivasankar, J Power Sources, 111 (2002) 335-344.

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40. Polymer composites for polymer electrolyte membrane (PEM) fuel cells and Direct methanol fuel cells (DMFC), B.Vishnupriya, S.Jayaprakash, **K.Ramya**, M.Raja and K.S.Dhathathreyan, Proceedings of the First Asian Conference on Solid State Ionic Devices – FACSSID2000, March 22-24, 2000 held at Chennai India
41. High Performance gas diffusion electrodes for PEMFC, C.K.Subramaniam, N.Rajalakshmi, **K.Ramya** and K.S.Dhathathreyan, Bulletin of Electrochemistry, 16(8) 2000, 350-353
42. Development of polymer electrolyte membrane fuel cell stack, K.S.Dhathathreyan, P.Sridhar, G.Sasikumar, G.Velayutham, C.K.Subramaniam, N.Rajalakshmi, M.Raja and **K.Ramya**, International Journal of Hydrogen Energy, 24 (1999) 1107-1115.
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Papers in Conference

45. Effect of electrolyte composition on Al-air electrochemical cells, Aravind A B , **Ramya K** , Rajalakshmi N, Chandrabose A at International Conference on Advanced Materials(ICAM) 2019,Nirmalagiri college Kuthuparamba, Kannur Kerala-670701 June 12-14,2019
46. Dynamic Oxygen Electrode for Robust Zinc-air Battery, Imran K., **Ramya. K** and Rajalakshmi N., Poster presentation at the New generation ideation contest by Hindustan petroleum corporation limited (HP Green R & D center), Bangalore (Sept 12-2019)- II Prize.
47. “Studies on development of Polymer Electrolyte Membrane (PEM) based Electrochemical hydrogen purification Process” N.Manjula, R. Balaji, **K.Ramya**, N.Rajalakshmi a poster presentation at International Conference on Advances in Chemical Sciences and Technologies (ACST-2019) at NIT Warangal (23-25th Sep 2019)

48. High Performance Fe-N-C Electrocatalyst Derived Through Ion Exchange Templated Polymer Electrolyte, Imran K., **Ramya**. K and Rajalakshmi N., paper accepted for oral presentation at the 49th Power Sources Conference to be held in Jacksonville, FL, USA, June 15-18, 2020
49. Hydrogen Production by Electrochemical Methanol Reformation using Alkaline anion exchange membrane based cell, Majula N, Balaji R, **Ramya** K and Rajalakshmi N, at Advanced Energy Materisl, University of Surrey, England, Sept 10-12 2018, UK
50. A Silver based bifunctional catalyst for Zinc- Air cells, Imran Karajagi, K.**Ramya**, K.S.Dhathathreyan, P.C.Ghosh and Arindam Sarkar, Abstract submitted for presentation at International conference on advanced rechargeable batteries and allied materials (ICARBM- 2017) , Pune organised by C-Met, Pune 8-10 March 2017.
51. Methanol-Water Electrolysis using Titania Nanotubes based composite membrane for hydrogen generation, N.Manjula, R.Balaji, K.**Ramya**, K S. Dhathathreyan,A Ramachandraiah, The National Conference on Advanced Functional Materials, 8th and 9th of May 2015 at SRM University Vadapalani,Chennai.
52. Recovery of waste heat in a HT-PEMFC, G Vijaydev, K **Ramya**, Select X5 meet Organised by CECRI, Karaikudi, Feb26-27, 2015. Third prize to MR.Vijay Dev for best paper presentation
53. Modelling studies in Alkaline Fuel Cells, Shilochana Dudi and K. **Ramya**, Poster presentation at Comsol Conference 2014 held at Park Plaza Hotel, 13-14 Nov 2014
54. Development of Anion Exchange Membrane based Supercapacitors, P V S Krishna, K **Ramya**, K.S.Dhathathreyan, IUMRS-ICA 2013, Dec 16-20, Indian Institute of Science, Bangalore, India.
55. Hydrogen generation via urea electrolysis using Nickel alloy electrode, L.S. Ranjani, R. Balaji, K.**Ramya**, K.S.Dhathathreyan, National symposium on electrochemical science and technology, Bengaluru, India Aug 23-24, 2013
56. PEMFC technology development at ARC-International

- K.**Ramya**, N.Rajalakshmi, K.S.Dhathathreyan, Indo – US Interactive on hybrid power systems and energy meet held at NMRL Ambarnath, on October 18th – 19th 2012
57. Electrochemically reduced grapheme oxide/sulphonated polyether ether ketone composite membrane for electrochemical applications, S.Seetharaman, K.**Ramya**, K.S.Dhathathreyan, Abstract no. OP50, National conference on carbon Materials 2012(CCM 12), 1-3 Nov, 2012, BARC, Mumbai
 58. Carbon Assisted water electrolysis for hydrogen generation, S.Sabareeswaran, R.Balaji, K.**Ramya** and K.S.Dhathathreyan, Abs. No. OP33, National conference on carbon Materials 2012(CCM 12), 1-3 Nov, 2012, BARC, Mumbai.
 59. Bifunctional electrocatalysts for Oxygen/air electrodes
N.Sasikala, K.**Ramya**
Paper Presented in Seventeenth National convention of Electrochemists(NCE-17) at B.S.Abdur Rahman University, Chennai on 14-15th Sep' 2012
 60. Synergistic effect of stabilizer in alkaline water electrolysis"
S.Seetharaman , R.Balaji , K.**Ramya** , K.S.Dhathathreyan , M.Velan
Paper Presented in Seventeenth National convention of Electrochemists(NCE-17) at B.S.Abdur Rahman University, Chennai on 14-15th Sep' 2012
 61. Polymer electrolyte membrane Fuel Cells- Technology, K.**Ramya** ,in National Seminar on Strategies for harnessing fuel cell energy for innovative applications, held at VIT Chennai 8th -9th Feb 2013
 62. Silica treated expanded PTFE based Nafion Composite membrane (No. P-17)
K.Pattabiraman and K.**Ramya**, International conference on Emerging technologies in Renewable Energy(ICETRE-2010), August 18-21, 2010, Anna University, Chennai, India.
 63. Polymer Electrolyte Membrane based Humidity Sensors for Fuel Cells, Ranjani L S & **Ramya** K, National Symposium on Electrochemical Science and Technology (NSEST 2011) conducted by Electrochemical Society (ECS), Indian Institute of Science Bengaluru, India
 64. Study of a Porous membrane humidification method in polymer electrolyte membrane fuel cells(PEMFC), K.**Ramya**, J. Sreenivas, K.S.Dhathathreyan, in Fucetech 2009, Mumbai, Nov 11-13, 2009

65. Composite ionic material as electrolyte for EDLC development for fuel cell power system application, C.K.Subramaniam, C.S.**Ramya**, K.**Ramya**, K.S.Dhathathreyan in Fucetech 2009, Mumbai, Nov 11-13, 2009
66. Study of low cost hydrophilic membrane based humidification for fuel cells, J.Sreenivas, **K.Ramya** and K.S.Dhathathreyan, a poster presented in the Fourteenth National Convention of Electrochemists held at Indira Gandhi Centre for Atomic Research, Kalpakkam on the 6-7 December 2007 organised by Society of Advancement of Electrochemical Science and Technology, CECRI Campus, Karaikudi 630005. This poster received the **III prize for the best poster award**.
67. Water Uptake and Conductivity studies in sulphonated poly(ether ether ketone) membranes, D.Sabhita and **K.Ramya**, a poster presented in the Fourteenth National Convention of Electrochemists held at Indira Gandhi Centre for Atomic Research, Kalpakkam on the 6-7 December 2007 organised by Society of Advancement of Electrochemical Science and Technology, CECRI Campus, Karaikudi 630005.
68. Characterization and Optimization of Low cost activated carbon Fabric as a substrate layer for PEMFC electrodes, N.Rajalakshmi, G.Velayutham, **K.Ramya**, C.K.Subramaniam and K.S.Dhathathreyan in Fuel Cell 2005, Third International Conference on Fuel Cell Science, Engineering and Technology, May 23-25, Ypsilanti, Michigan (FuelCELL-74182)
69. Issues pertaining to emerging membrane technology for polymer electrolyte fuel cells, **K.Ramya** and K.S.Dhathathreyan paper presented at the "National Seminar on Pollution Control- Recent Advances in Membrane Science and Technology- 9th and 10th May 2002 organised by Department of Chemical Engineering, AC College of Technology, Anna University, Chennai-600 025
70. Polymer electrolyte membranes for polymer electrolyte fuel cells, **K.Ramya**, P.Amala dass and K.S.Dhathathreyan paper presented as a Poster in the "Fourth national symposium on Chemistry" held at Pune Feb 1-3 2001.
71. Electrochemical properties of as produced and copper encapsulated TiMn₂ alloy electrodes in alkaline solution, **K.Ramya**, N.Rajalakshmi, P.Sridhar and B.Sivasankar, Paper presented at the National Symposium on Electrochemical Science and Technology, NSEST-2001, July 20-21 held at I.I.Sc, Bangalore, India

72. Composite membranes for polymer electrolyte fuel cells, B.Vishnupriya, **K.Ramya** and K.S.Dhathathreyan, Paper presented at the National Symposium on Electrochemical Science and Technology, NSEST-2001, July 20-21 held at I.I.Sc, Bangalore, India
73. Polymer Composites for polymer electrolyte membranefuel cells and Direct methanol fuel cells, B.Vishnupriya, S.Jayaprakash, **K.Ramya**, M.Raja and K.S.Dhathathreyan, paper presented at the First Asian Conference on Solid State Ionic Devices – FACSSID2000, March 22-24, 2000 held at Chennai India
74. Modified approach for fabrication of gas diffusion electrodes, C.K.Subramaniam, **K.Ramya**, N.Rajalakshmi and K.S.Dhathreyan by MRSI, Chennai, India held at IGCAR, Kalpakkam, India, 1998.

Invited Lectures

75. PEMFC – Trends and Technology, **K.Ramya** at the Faculty development program on Non-conventional Energy Sources: Technologies and Trends(Virtual) organized by Government Engineering College, Kozhikode ,26-31 July 2021
76. Fuel Cells – Materials and Technology, **K.Ramya** at the Faculty development program organized by NIT Rourkela, 21-25 June 2021
77. “Polymer-assisted fabrication of inorganic nanoparticles for electrochemical devices”, **K.Ramya** at the 12th International conference on Advancements in Polymeric materials, Mar 9-13,2021, Organized by CIPET : SARP-LARPM, Bhubaneswar.
78. “PEMFC development for hybrid electric vehicle” at the International Virtual Conference on “Electric Mobility 2020” organized by TIFAC-CORE centre of VIT, Vellore on June 25, 2020.
79. Ordered support materials and catalysts for oxygen reduction reaction in electrochemical systems, **K.Ramya** and N.Rajalakshmi at 7th National conference on hierarchically structured materials (NCHSM 2019), 22 & 23 Feb at SRM IST, Ramapuram, Chennai - 600089
80. Synthesis, characterization and applications of quarternized poly(phenylene oxide) based anion exchange membranes, **K.Ramya** and N.Rajalakshmi

International conference on Advancements in Polymeric materials, Jan 22-23, 2019, Organized by CIPETat Chennai

81. Thermal management of Fuel Cells, **K.Ramya**, Faculty development Program on “Recent Advances in renewable Energy Technologied for Sustainable development” at Department of Mechanical Engineering, SRM Institute of Science and Technology, Chennai, 26-30 Nov 2018.
82. HTPMFC stack development and analysis using AC impedance spectroscopy, **K.Ramya** and K.S.Dhathathreyan, International conference on Advancements in Polymeric materials, Feb 12-14,2016, Organized by CIPETat Ahmedabad.
83. Polymer Electrolyte Membrane Based Electrochemical Conversion of Carbon Dioxide from Aqueous Solutions, P. Suresh, **K. Ramya***, K. S. Dhathathreyan, Fourth International Conference on Natural Polymers, Bio-Polymers, Bio-Materials, their Composites, Nanaocomposites, Blends, IPNs, Polyelectrolytes and Gels: Macro to Nano Scales (ICNP – 2015), April 10, 11 & 12, 2015, Kottayam, Kerala, India organised by Mahatma Gandhi University, Kottayam Kerala
84. Polymer electrolytes in electrochemical devices
K.Ramya and K.S.Dhathathreyan, International conference on Advancements in Polymeric materials, Feb 20-22,2015, Organized by CIPETat IISc, Bangalore.
67. Electrochemistry applications in Fuel cells DST SERB school on “Fundamental electrochemical principles applied to problems in science and engineering” from 10-14 Aug, conducted in the Dept. Chem. Engg. IIT Madras.
68. Polymer electrolyte membrane based supercapacitors
K.Ramya and K.S.Dhathathreyan, International conference on Advancements in Polymeric materials, 2014, Organized by CIPET, Bhuvaneshwar.
69. Polymer electrolyte membranes in sensor applications
K.Ramya and K.S.Dhathathreyan, International conference on Advancements in Polymeric materials, innovation in materials and product developments, March 1-3,2013, Organized by CIPET, Lucknow.
70. Ionic conducting Materials- Solid Polymer electrolytes, **K.Ramya** at Two day Program on Fuel Cell Education and Training – 4-5 April 2011 organized by TIFAC-CORE in Automotive Infotronics, VIT University, Vellore

71. Nafion / PTFE Composite Membranes for Fuel Cell Applications, K.**Ramya** and K.S.Dhathathreyan, International conference on Advancements in Polymeric materials, innovation in materials and product developments, March 25-27,2011, Organized by CIPET, Chennai.

Patents

72. A grid independent fuel cell system with a unitized (dc & ac) power conditioner filed on 20th February 2019. Appl No. 201911006700.
73. High temperature polymer electrolyte membrane fuel cells with exfoliated graphite based bipolar plate 494/DEL/2014 dated 20.2.14
74. Exfoliated graphite separator based electrolyzer for hydrogen generation 3073/DEL/2013.
75. Polymer Electrolyte Membrane (PEM) cell and a method of producing hydrogen from aqueous organic solutions in pulse current mode 3313/DEL/2012.
76. An improved method for the generation of hydrogen from a metal hydrogen compound and a device therefor – Patent granted no. 285257.
77. A hydrophilic membrane based humidifier useful for fuel cells. Patent application No. 95/DEL/2007 filed on 16.01.2007.
78. An Improved hydrophilic membrane useful for humidification of gases in fuel cells and a process for its preparation. Patent application number 1207/DEL/2006 dated 17.05.06.
79. A Blend Membrane- Application 303/MAS/2001 published 2005-07-29, filed 2001-04-09
80. A composite membrane for use in electrochemical apparatuses and processes, Application 975/MAS/2002 published 2005-05-20, filed 2002-12-12

Book Chapter

81. Polymer electrolyte membrane based electrochemical conversion of carbon dioxide from aqueous solutions, D. Suresh, K. **Ramya**, and K. S. Dhathathreyan in Polymeric and Nanostructured Materials, Ed. A.Thankappan, N.Kalarikkal, S.Thomas and A.Padinjakkara, Apple Academic Press, Dec 2018

82. A book chapter on "High Temperature PEM: An Insight" S Ramakrishnan, K **Ramya**, N Rajalakshmi as part of "PEM Fuel cells: Fundamentals, advanced technologies and practical applications", ISBN: 978-0-12-823708-3, Elsevier Publications, p223 – 242, 2021