1. Name : Ramesh Kumar Singh
2. Highest Qualification(s) : M.Sc.-Ph.D., IIT Bombay
3. Post-Doctoral Experience(s) :

| | |
|---|---|
| i) | Technion-Israel Institute of Technology, Israel |
| ii) | Ariel University, Israel |

4. Google Scholar : https://scholar.google.com/citations?user=-qxF-b8AAAAJ&hl=en&authuser=1

5. Group Webpage :

6. Research fields : Electrochemistry, Anion exchange membrane fuel cells, Electrolyzers, Nanomaterials

7. Collaboration :

| | |
|---|---|
| National | i) IIT Bombay |
| International | i) Israel, United States, France, Germany, Portugal, Finland, Canada, UK |

8. Prize/Fellowships/Awards :

| | |
|---|---|
| Prize | Received Travel Grant ($1399) for attending the Electrochemical Society Meeting in Toronto, Canada from Science and Engineering Research Board, Department of Science and Technology, India, 2013. |
| Fellowships | i) Awarded prestigious “Grand Technion Energy Program (GTEP) Fellowship in Energy” for outstanding Postdoctoral Fellow for two consecutive years, Technion, Israel, 2019/2020 and 2020/2021.<br>ii) Visiting Scientist, Institut Charles Gerhardt Montpellier (UMR CNRS 5253, Montpellier, France) supported through the French – Israëli CNRS – MOST programme, January 2020.<br>iii) Postdoctoral Fellowship with Prof. Dario R. Dekel, Technion-Israel Institute of Technology, Israel, 2018.<br>iv) Postdoctoral Fellowship with Prof. Alex Schechter, Ariel University, Israel, 2016.<br>v) Research Associate Fellowship from Industrial Research and Consultancy Centre at Indian Institute of Technology Bombay, India, 2015.<br>vi) Senior/Junior Research Fellowship at Indian Institute of Technology Bombay from Ministry of Human Resource Development, India, 2008-2015. |
| Awards | Person of the Year, 2010-2011, Hostel-12, IIT Bombay |

9. Membership : List out the membership in professional bodies.

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| i) | 0 |
| ii) | 0 |

10. Invited Talk : 8

11. Funded Projects/Consultancy : Ongoing: Details Completed: Details.

| | |
|---|---|
| Ongoing | i)1 |
| Completed | i)0 |

12. Ph.D. students : Ongoing: 4 Completed: 0

13. Graduate projects : Ongoing: 0 Completed: 0.

14. Selected publications :

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|---|---|
| i) | Lingmei Ni, Elena S. Davydova, **Ramesh K. Singh**, Lubov Kolik-Shmuel, Dario R. Dekel, Ulrike I. Kramm, Role of Fe for alkaline hydrogen oxidation reaction in NiFe/C alloy catalyst: An insitu Mössbauer spectroscopic investigation, Journal of Physics: Energy, **2023** (Accepted). |
| ii) | Szymon Wierzbicki, John C Douglin, **Ramesh K Singh**, Dario R Dekel, and Krzysztof Kruczała, Operando EPR Study of Radical Formation in Anion-Exchange Membrane Fuel Cells, ACS Catalysis, 13, 2744–2750, **2023**. (citation# 3) https://doi.org/10.1021/acscatal.2c05843 (mention in Nature Catalysis, 2023). |
| iii) | Ramesh K. Singh, J. C. Douglin, L. Jiang, K. Yassin, S. Brandon, and D. R. Dekel, $CoO_x$-$Fe_3O_4$/N-rGO Oxygen Reduction Catalyst for Anion-Exchange Membrane Fuel Cells. Energies, 16(8), 1-18, **2023**. https://doi.org/10.3390/en16083425 |
| iv) | Douglin, John C., **Ramesh K. Singh*,** Eliran R. Hamo, Mohamad B. Hassine, Paulo J. Ferreira, Brian A. Rosen, Hamish A. Miller, Gadi Rothenberg, and Dario R. Dekel. "Performance optimization of PGM and PGM-free catalysts in anion-exchange membrane fuel cells." Journal of Solid State Electrochemistry, 26, 2049–2057, **2022**. (citation# 1) https://doi.org/10.1007/s10008-022-05261-4 |
| v) | M.V. Pagliaro, C. Wen, B. Sa, B. Liu, M. Bellini, F. Bartoli, S. Sahoo, **Ramesh K. Singh**, S.P. Alpay, H.A. Miller and D.R. Dekel, Improving Alkaline Hydrogen Oxidation Activity of Palladium through Interactions with Transition-Metal Oxides. ACS Catalysis, 12, 10894-10904, **2022**. (citations# 8) https://doi.org/10.1021/acscatal.2c02417 |
| vi) | **Ramesh. K. Singh**, K. Rajavelu, M. Montag, and A. Schechter, Advances in Catalytic Electrooxidation of Urea: A Review, Energy Technology, **2021,** 2100017 (IF#3.6) (citations# 38). https://doi.org/10.1002/ente.202100017 |
| vii) | Eliran R. Hamo#, **Ramesh K. Singh**#, John C. Douglin, Sian Chen, Shanfu Lu, Mohamed Ben Hassine, Enrique Carbo-Argibay, Haining Wang, Paulo J. Ferreira, Brian A. Rosen, and Dario R. Dekel, Carbide-supported PtRu Catalysts for Hydrogen Oxidation Reaction in Alkaline Electrolyte, ACS Catalysis, 11, 932−947, **2021** (IF# 13.7) (#equal contribution) (citations# 36). https://dx.doi.org/10.1021/acscatal.0c03973 |
| viii) | **Ramesh K. Singh**, Elena. S. Davydova, J. Douglin, A. O. Godoy, H. Tan, M. Bellini, J. Jankovic, H. A. Miller, B. J. Allen, A. C. Alba-Rubio, and D. R. Dekel, Controlled Surface Reaction Synthesis of CeOx-decorated Pd/C Catalysts for Hydrogen Oxidation in Anion Exchange Membrane Fuel Cells, Advanced Functional Materials, 30 (38), 2002087, **2020**. (IF#19.9) (citations# 46) https://doi.org/10.1002/adfm.202002087 |
| ix) | **Ramesh K. Singh** and A. Schechter, Electrochemical investigation of urea oxidation reaction on β-Ni(OH)2 and Ni/Ni(OH)2, Electrochimica Acta, 278, 405-411, 2018. (IF# 7.3) (citations# 89) https://doi.org/10.1016/j.electacta.2018.05.049 |
| x) | **Ramesh K. Singh**, R. Devivaraprasad, T. Kar, A. Chakraborty, and M. Neergat, Electrochemical impedance spectroscopy of oxygen reduction reaction (ORR) in a rotating disk electrode configuration: effect of ionomer content and carbon-support, Journal of The Electrochemical Society, 162, F489–F498, **2015**. (most downloaded article in March 2015) (IF# 4.3) (citations# 137) DOI: 10.1149/2.0141506jes |

15. Other activities :

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|---|---|
| i) | |
| ii) | |