

CURRICULUM VITAE

Dr. P. Justin

Department of Chemistry
Rajiv Gandhi University of Knowledge Technologies (RGUKT-AP),
IIIT-RK Valley Institute-516330,
Kadapa Dist., AP
Adjunct Faculty, IIT-Madras
E-mail : ponjustin@rgukt.in
Phone: 08588-283603, Mobile +91 8500094400
Google Scholar: <https://scholar.google.com/citations?user=ccIHo-UAAAAJ>
ORCID: <https://orcid.org/0000-0002-9691-1823>
Scopus Author ID: 24171201600
Linkedin: <https://www.linkedin.com/in/justin-ponniah-43794926/>



Dr. P. Justin has been an Assistant Professor at RGUKT, RK Valley since 2010 and holds a Ph.D. thesis related to energy conversion and energy storage from IIT Madras. Before that, he obtained an M.Tech in Surface Science and Engineering from NIT, Jamshedpur, and an M.Sc. in Chemistry from Madurai Kamarajar University, Tamil Nadu. Additionally, he holds the adjunct faculty position at IIT Madras, showcasing his commitment to academic excellence.

RESEARCH

His primary research focus lies in energy conversion and energy storage, encompassing areas such as Energy Science and Engineering (Fuel cells, supercapacitors, Batteries & water splitting), Nanoscience and Nanotechnology (Electrochemical biosensors, Magnetic materials, and magnetocaloric materials), and Surface Science and Engineering (Electrochemical corrosion prevention and conversion coating like plasma electrolytic oxidation). His technical skills also extend to the proficient use of Microsoft Suite and various data measurement and analysis software. His research contributions are evidenced by the publication of more than 40 research publications in highly reputed peer-reviewed journals, boasting an **average impact factor of 6.97, accumulating 2500 citations and an H-index of 19 with citations per faculty of 70.** Furthermore, he has presented his research findings at various conferences and has been invited to speak at various universities across India.

TEACHING

With over 17 years of teaching and research experience, Dr. P. Justin has dedicated over 20000 hours to educating students in Chemistry, Nanotechnology, Renewable energy, Metallurgy and Surface engineering. Apart from his expertise in these subjects, he is also passionate about teaching beyond his fields. Demonstrating a holistic commitment to academia, Dr. P. Justin is mentoring two PhD students and has supervised more than 200 B. Tech projects. Many of his project students have pursued higher studies at renowned institutions in India and overseas, while others have secured positions in the public sector after passing the GATE test. He has also contributed to courses under the Anna University syllabus, including Engineering Chemistry and Environmental Science and Engineering.

ADDITIONAL POSITION

In the realm of administration, Dr Justin has held key roles at RGUKT-RK Valley, serving as the Internal Quality Assurance Cell Coordinator, Nodal Officer for the National Institutional Ranking Framework, and Public Relations Officer. Dr. P. Justin is known for being an excellent team player and for his administrative skills, which he uses to handle coordinating responsibilities across departments and institutes.

Dr. Justin extends his contribution to the academic community as a reviewer for various journals and holds the position of Guest Editor at Frontiers in Materials.

EDUCATION:

Degree	Institute	Year of Completion	% of marks	Class
M.Sc. (Chemistry)	Madurai Kamaraj University	1998	67.4%	I
M.Tech. Corrosion Engg. (Surface science & Engineering)	National Institute of Technology, Jamshedpur	2001	C.G.P.A (9.05)	
Ph.D. (Electrochemistry)	Indian Institute of Technology, Madras.	2010	C.G.P.A (8.0)	

- ❖ GATE 1999 qualified
- ❖ Second rank holder in M.Tech
- ❖ Junior Research Fellow, IIT-Madras, 2004
- ❖ Senior Research Fellow, IIT-Madras, 2006

Language known: English, Tamil, Malayalam, Telugu

TEACHING & RESEARCH EXPERIENCES: 17 years and 4 months

S/N	Institute	Period	Durations	Position
1	Rajiv Gandhi University of Knowledge Technologies-Kadapa, AP	Sep.2010 to till date.	13 Years & 3Month	Assistant Prof.
2	ICSR, IIT-Madras (TN)	Aug.2009 to July, 2010	1 year	Project Officer
3	Narayana Guru College of Engineering, Manjalumoodu, Tamilnadu	Aug.2002-July 2004.	2 Years	Lecturer
4	Sun College of Engineering & Technology, Erachakulam, TN	June 2001-July 2002	1 Years & 1 Month	Lecturer

COURSES TAUGHT

A. RGUKT-RK VALLEY syllabus (Sep.2010- till date)

1	Nanomaterials (MEXX16)	10	Introduction to ceramic Technology (MM3202)
2	Economic Policies of India	11	Powder Metallurgy

3	Advanced Functional Material for Energy and Electronic Applications (CY1005)	12	Non-Ferrous Extractive Metallurgy (CY1005)
4	Renewable Energy (PH4206)	13	Chemistry of Materials (CY1005)
5	Corrosion and Environmental Degradation of Materials (MM3102)	14	Chemistry (CY1201)
6	Electrometallurgy and corrosion (MM2203)	15	Managerial Economics (HS1002)
7	Surface Science and Engineering	16	Soft Skills (HS1003)
8	Energy Materials and Fuel Cell Technology	17	Corrosion and Protection Lab. (MM3702)
9	Non-Ferrous Extractive Metallurgy (MM3107)	18	Chemistry Lab (CY1801)

.B. Anna University syllabus (June 2001-july 2004)

1	Engineering chemistry	3	Environmental science and engineering
2	Material Science	4	Engineering chemistry Lab.

PhD GUIDANCE:

1. Mr. H. Seshagiri Rao (IIT-Madras)
2. Mr. P. Nagaraja

B. Tech GUIDANCE:

I have supervised more than 200 B. Tech projects. Many of my project students have pursued higher studies at renowned institutions in India and overseas, while others have secured positions in the public sector after passing the GATE test.

ADDITIONAL POSITION

Position	Institution	Period
Coordinator: National Assessment and Accreditation Council (NAAC)	Rajiv Gandhi University of Knowledge Technologies-RK Valley, YSR Kadapa, AP	April 2023 to till date
Coordinator: Internal Quality Assurance Cell (IQAC)	Rajiv Gandhi University of Knowledge Technologies-RK Valley, YSR Kadapa, AP	October 2021 to till date
Nodal Officer	National Institutional Ranking Framework (NIRF), International Institute of Information Technology (AP), RGUKT-Kadapa, AP	Assessment Year 2021, 2022, 2023
Public Relation Officer	Rajiv Gandhi University of Knowledge Technologies-RK Valley, YSR Kadapa, AP	March 2017 – December 2019
Coordinator: Horticulture	Rajiv Gandhi University of Knowledge Technologies-RK Valley, YSR Kadapa, AP	August.2014– July 2015
Coordinator: Chemistry Department	Rajiv Gandhi University of Knowledge Technologies-RK Valley, YSR Kadapa, AP	June 2011– July 2013

Coordinator: Chemistry Department	Narayana Guru College of Engineering, Manjalumoodu, Tamilnadu	Aug.2002– July 2004.
Coordinator: Corrosion and Environmental Degradation of Materials Lab (MME)	Rajiv Gandhi University of Knowledge Technologies-RK Valley, YSR Kadapa, AP	August.2014– July 2015
Committee Member: Institute Industry Cell	Rajiv Gandhi University of Knowledge Technologies-RK Valley, YSR Kadapa, AP	December 2023 to till date
Committee Member: Students Club	Rajiv Gandhi University of Knowledge Technologies-RK Valley, YSR Kadapa, AP	December 2023 to till date
Committee Member: Mess	Rajiv Gandhi University of Knowledge Technologies-RK Valley, YSR Kadapa, AP	December 2016– November 2017

PROJECT

1	CREATION AND STORAGE OF SUSTAINABLE ENERGY VIA ELECTROCHEMICAL SYSTEMS Funding agency: RGUKT-AP, Period: 1.5 years (accepted on 01-09-2022), Amount: Rs. 1,80,000/, Role: Investigator
2	Design, Synthesis and Studies of Structural and Magneto-Electrical Properties of PZT Based Multiferroic Materials (SR/S2/CMP-0130/2012). Funding agency: Science & Engineering Research Board, DST, Period: 3 years (accepted on 01-08-2013), Amount: Rs. 10,00,000/, Role: Co-Investigator
3	Synthesis and Application of Pore-Modified Novel Nano porous Materials (Grant No.ERIP/ER/0600319/M/01/1052) Funding agency: DRDO, Period: 01-08-2008 to 31-07-2010, Amount: Rs. 20,00,000/ Role: Project officer
4	Development of Doped Oxide/Noble Metal Nano-Structures for Electro Catalyst and Fuel Cell Related Applications (Project No.102/28/2006-NT) Funding agency: MNRE, Period: 30-10-2007 to 29-04-2010, Amount: Rs. 24,00,000/ Role: Project student

LIST OF PUBLICATIONS BASED ON THE RESEARCH WORK

S/N	Descriptions
1	Justin, P., Ranga Rao, G. Enhanced activity of methanol electrooxidation on Pt–V ₂ O ₅ C catalysts. Catal. Today, (ISSN:1873-4308)141(2009), 138–143. Impact factor: 6.56, Citations: 106 (Web of Science) https://www.sciencedirect.com/science/article/abs/pii/S0920586108001363
2	Justin, P., Meher, S. K., Ranga Rao, G. Tuning of capacitance behavior of NiO using anionic, cationic and non-ionic surfactants by hydrothermal synthesis. J. Phys. Chem. C, (ISSN 1932-7455)114 (2010), 5203–5210. Impact factor: 4.18, Citations: 319 https://pubs.acs.org/doi/abs/10.1021/jp9097155
3	Justin, P., Ranga Rao, G. CoS spheres for high-rate electrochemical capacitive energy storage. Int. J. Hydrogen Energy, (ISSN: 1879-3487) 35 (2010), 9709–9715. Impact factor: 7.14, Citations: 152 (Web of science)

	https://www.sciencedirect.com/science/article/abs/pii/S0360319910012127
4	Justin, P., Charan, P. H. K., Ranga Rao, G. High-performance Pt–Nb ₂ O ₅ C electrocatalysts for methanol electrooxidation in acidic media. <i>Appl. Catal. B: Environ.</i> , (ISSN: 1873-3883)100 (2010), 510–515. Impact factor: 24.34, Citations: 103 https://www.sciencedirect.com/science/article/abs/pii/S0926337310003929
5	Meher, S. K., Justin, P., Ranga Rao, G. Pine-cone morphology and pseudocapacitive behaviour of nano porous nickel oxide. <i>Electrochim. Acta</i> , (ISSN:1873-3859), 55 (2010), 8388–8396. Impact factor: 7.34, Citations: 207 (Web of Science) https://www.sciencedirect.com/science/article/abs/pii/S0013468610009886
6	Justin, P., Ranga Rao, G. Methanol oxidation on MoO ₃ promoted PtC electrocatalyst. <i>Int. J. Hydrogen Energy</i> , (ISSN: 1879-3487) 36 (2011), 5875–5884. Impact factor: 7.14, Citations: 132 (Web of science) https://www.sciencedirect.com/science/article/abs/pii/S0360319911002126
7	Meher, S. K., Justin, P., Ranga Rao, G. Nanoscale morphology dependent pseudo capacitance behaviour of NiO: Influence of intercalating anions during synthesis. <i>Nanoscale</i> , (ISSN 2040-3372) 3 (2011), 683–692. Impact factor: 8.31, Citations: 309 https://pubs.rsc.org/en/content/articlehtml/2011/nr/c0nr00555j
8	Meher, S. K., Justin, P., Ranga Rao, G. Microwave mediated synthesis for improved morphology and pseudo capacitance performance of nickel oxide. <i>ACS Appl. Mater. Interfaces</i> , (ISSN: 1944-8252) 3(2011), 2063–2073. Impact factor: 10.38, Citations: 459 https://pubs.acs.org/doi/abs/10.1021/am200294k
9	Ranga Rao, G., Justin, P., Meher, S. K. Metal oxide promoted electrocatalysts for methanol oxidation. <i>Catal Surv Asia</i> , (ISSN: 1574-9266) 15(2011), 221–229 Impact factor: 3.00, Citations: 24 (Web of Science) https://link.springer.com/article/10.1007/s10563-011-9124-x
10	Justin, P., Charan, P. H. K., Ranga Rao, G. Activated zirconium carbide promoted PC electrocatalyst for oxygen reduction., <i>Appl. Catal. B: Environ.</i> , (ISSN: 1873-3883) 144(2014), 767–774. Impact factor: 24.32, Citations: 25 https://www.sciencedirect.com/science/article/abs/pii/S0926337313005249
11	Syedvali, P., Rajeshkhanna, G., Umeshbabu, E., Kiran, G. U., Ranga Rao, G., Justin, P., In situ fabrication of graphene decorated micro structured globe artichokes of partial molar nickel cobaltite anchored on a Ni foam as a high-performance supercapacitor electrode., <i>RSC Adv.</i> , (ISSN :2046-2069)5 (2015), 38407–38416. Impact factor: 4.04 Citations: 54 https://pubs.rsc.org/en/content/articlelanding/2015/ra/c5ra03463a/unauth
12	Umeshbabu, E., Rajeshkhanna, G., Justin, P., Ranga Rao, G., Synthesis of mesoporous NiCo ₂ O ₄ –rGO by a solvothermal method for charge storage applications., <i>RSC Adv.</i> , (ISSN: 2046-2069), 5 (2015), 66657–66666. Impact factor: 4.04 Citations:124 https://pubs.rsc.org/en/content/articlelanding/2015/ra/c5ra11239g/unauth
13	Umeshbabu, E., Rajeshkhanna, G., Justin, P., Ranga Rao, G., Magnetic, optical and electrocatalytic properties of urchin and sheaf-like NiCo ₂ O ₄ nanostructures Mater. Chem. Phys.,(ISSN: 1879-3312) 165 (2015), 235–244. Impact factor: 4.78, Citations: 101 (Web of Science) https://www.sciencedirect.com/science/article/abs/pii/S0254058415303424

14	Rajeshkhanna, G., Umeshbabu, E., G., Justin, P., Ranga Rao, G., In Situ Fabrication of Porous Festuca Scoparia-like Ni _{0.3} Co _{2.7} O ₄ Nanostructures on Ni-foam: An Efficient Electrode Material for Supercapacitor Applications. Int. J. Hydrogen Energy., (ISSN: 1879-3487),40 (2015), 12303-12314. Impact factor: 4.04 Citations: 47 (Web of science) https://www.sciencedirect.com/science/article/abs/pii/S0360319915015311
15	Tirupathi, P., Justin, P., Prabhakar K., Ghosh, A., Raman and dielectric spectroscopic analysis of magnetic phase transition in Y(Fe _{0.5} Cr _{0.5})O ₃ multiferroic ceramics , Ceram Int. (ISSN 0272-8842), 42 (2016) 13834-13840 Impact factor: 5.53, Citations: 16 https://www.sciencedirect.com/science/article/abs/pii/S0272884216308112
16	Vijayakumar, B., Justin, P., MnO ₂ /mont K10 composite for high electrochemical capacitive energy storage, Int. J. Hydrogen Energy, (ISSN: 1879-3487) 41 (2016), 12183-12193. Impact factor: 7.14, Citations: 8 (Web of science) https://www.sciencedirect.com/science/article/abs/pii/S0360319915319637
17	Umeshbabu, E., Rajeshkhanna, G., Justin, P., Ranga Rao, G., NiCo ₂ O ₄ /rGO hybrid nanostructures for efficient electrocatalytic oxygen evolution, J Solid State Electr.,(ISSN: 1433-0768) 20 (2016), 2725–2736. Impact factor: 2.75, Citations: 60 https://link.springer.com/article/10.1007/s10008-016-3278-4
18	Rajeshkhanna, G., Umeshbabu, E., Justin, P., Ranga Rao, G., Spinel ZnCo ₂ O ₄ nanosheets as carbon and binder free electrode material for energy storage and electroreduction of H ₂ O ₂ , J. Alloys Compd., (ISSN:0925-8388), 696 (2017), 947-955. Impact factor: 6.37, Citations: 31 https://www.sciencedirect.com/science/article/abs/pii/S0925838816338944
19	Venkateswarlu, P., Umeshbabu, E., Kumar, U.N., Nagaraja, P., Tirupathi, Ranga Rao, G., P., Justin, P., Facile hydrothermal synthesis of urchin-like cobalt manganese spinel for high-performance supercapacitor applications, J. Colloid Interface Sci., (ISSN: 1095-7103) 503 (2017), 17–27. Impact factor: 9.97, Citations: 34 https://www.sciencedirect.com/science/article/abs/pii/S0021979717305192
20	Tirupathi, P., Justin, P., Prabahar K., Poster, M., Broad temperature dependent magnetic and dielectric spectroscopy study of Dy (Fe 0.5 Cr 0.5) O 3 multiferroic ceramics, J. Alloys Compd., (ISSN:0925-8388) 731 (2018), 411-417. Impact factor: 6.37, Citations: 18 https://www.sciencedirect.com/science/article/abs/pii/S0925838817334837
21	Umeshbabu, E., Justin, P., Ranga Rao, G., Tuning the surface morphology and pseudocapacitance of MnO ₂ by a facile green method employing organic reducing sugars, ACS Appl. Energy Mater., (ISSN: 2574-0962), 8 (2018), 3654-3664. Impact factor: 6.96, Citations: 26 https://pubs.acs.org/doi/abs/10.1021/acsaem.8b00390
22	Tirupathi, P., Justin, P., Babu, P. D., Avijit, G., Analysis of dielectric and magnetic phase transitions in Yb (Fe _{0.5} Cr _{0.5}) O ₃ bulk perovskite, Appl. Phys. A, (ISSN :0947-8396) 125 (2019), 1-12 Impact factor: 2.98, Citations: 22 https://link.springer.com/article/10.1007/s00339-019-2516-x
23	BNT, Lakshmana Naik R, P. Justin. Size Controlled Hydrothermal Synthesis and Characterization of Nickel Metavanadate (NiVO ₃) Nanoparticles. International Journal of Advanced Science and Technology, (ISSN: 2207-6360), 29 (2020) 10012 –10018: Impact Factor: 6.78. Citations: 6

	http://sersc.org/journals/index.php/IJAST/article/view/19484
24	Umeshbabu, E., Charan, P. H. K., Justin, P., Ranga Rao, G., Hierarchically Organized NiCo ₂ O ₄ Microflowers Anchored on Multiwalled Carbon Nanotubes: Efficient Bifunctional Electrocatalysts for Oxygen and Hydrogen Evolution Reactions, ChemPlusChem (ISSN:2192-6506), 85 (2020), 183-194 Impact factor: 3.21, Citations: 32 https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cplu.201900603
25	RL Naik, P Justin, TB Narsaiah. Controllable synthesis of cobalt vanadate nanostructure materials for direct methanol fuel cell applications. Proceed. Int. Conf. Adv. Chem. Eng. (AdChE) (ISSN:0975-5616). 2020 Impact factor: 1.93, Citations: 4 (Web of Science) https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3728686
26	Satyanarayana, M., Umeshbabu, E., Jibin, A.K., J. James., Justin, P., Varadaraju, U.V. Electrochemical lithium and sodium insertion studies in 3D metal oxy-phosphate framework MoWO ₃ (PO ₄) ₂ for battery applications, J Solid State Electr., (ISSN: 1433-0768) 25 (2021), 2675–2685. Impact factor: 2.75, Citations: 0 https://link.springer.com/article/10.1007/s10008-021-05051-4
27	Umeshbabu, E., Satyanarayana M., Karkera, G., Pullamsetty, A., Justin, P. Hierarchical a-MnO ₂ nanowires as an efficient anode material for rechargeable lithium-ion batteries, Mater. Adv,(ISSN 2633-5409) 3 (2022), 1642-1651 Impact factor: 5.36, Citations: 05 https://pubs.rsc.org/en/content/articlelanding/2022/ma/d1ma00755f
28	Nagaraja. P., Venkateswarlu, P., Umeshbabu, U.N., Anirudh. T., Rao. H.S., Ranga Rao, G., Justin, P., Surfactant-assisted hydrothermal synthesis of CoMn ₂ O ₄ nanostructures for efficient supercapacitors, J Solid State Electr., (ISSN:1433-0768) 27 (2023), 785-796 Impact factor: 2.75, Citations:03 https://link.springer.com/article/10.1007/s10008-022-05371-z
29	P Nagaraja, Rao. H.S., Ranga Rao, G., Justin, P., Mn ₃ O ₄ Nano-octahedrons Embedded in Nitrogen-Doped Graphene Oxide as Potent Anode Material for Lithium-ion Batteries, Ionics (ISSN: 0947-7047) (2023),1-12. Impact factor: 3.00, Citations: 0 https://pubmed.ncbi.nlm.nih.gov/37360247/
30	RL Naik, TB Narsaiah, P Justin. Hydrothermal synthesis and characterization of cobalt vanadate nanoparticles for supercapacitor applications, Materials Today: Proceedings (ISSN: 2214-7853).2023 Impact factor: 2.59, Citations: 0 https://www.sciencedirect.com/science/article/abs/pii/S2214785323033576
31	E Umeshbabu, D Velpula, G Karkera, M Satyanarayana, V Pasala, P Justin, Facile Synthesis of Ordered Mesoporous Orthorhombic Niobium Oxide (T-Nb ₂ O ₅) for High-Rate Li-Ion Storage with Long Cycling Stability, Batteries (ISSN 2313-0105), 9 (2023), 357. Impact factor: 5.93. Citations: 0 https://www.mdpi.com/2313-0105/9/7/357
32	RL Naik, TB Narsaiah, P Justin, AN Kumar, MN Somashekar. Hydrothermally synthesized cobalt vanadate nanoparticles for photocatalytic degradation of Fast Orange Red dye and supercapacitor applications. Materials Science and Engineering: B (ISSN 0921-5107) 298 (2023), 116861. Impact factor: 3.4, Citations: 0 https://www.sciencedirect.com/science/article/abs/pii/S0921510723006037?dgcid=rss_sd_all
33	B Singh, A Tamta, B Chandra, ND Kandpal, SS Jadaun, AK Panwar, P Justin, Structural, Optical, Electrical, and Electrochemical properties of ZnMoO ₄ microspheres synthesized

	by the twin crystal method, Ceram Int. (ISSN 0272-8842), 49 (2023), 38047-38057, Impact factor: 5.2, Citations: 0 https://www.sciencedirect.com/science/article/abs/pii/S0272884223027621
34	H. Seshagiri Rao, Pernapati Nagaraja, Shuchi Sharma, G. Ranga Rao, Ponniah Justin. "Enhancing the Methanol Electro-oxidation Efficiency of Pt/C": Materials Today Sustainability (ISSN 2589-2347), 24(2023), p. 100570, Impact factor: 7.24, Citations: 0 https://www.sciencedirect.com/science/article/abs/pii/S2589234723002579
35	Naik, R.L., Justin, P, Narsaiah, T.B (2020) Controllable synthesis of cobalt vanadate nanostructure materials for direct methanol fuel cell applications Proceedings of the International Conference on Advances in Chemical Engineering (AdChE).(ISSN: 0975-5616), 2020 Impact factor: 1.8.Citations:1, https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3728686#
36	L Naik, P Justin Novel Enhanced Oil Recovery Technique. International Journal of Research and Analytical Reviews (ISSN: 2211-6109), 6 (2019), 784-791 Impact Factor 5.75. Citations: 0 (Web of Science) https://www.researchgate.net/publication/354887013
37	Lakshmana Naik R, P.Justin, Chintayyanaidu Rudram Conversion of Bio mass derived glycerol to hydrogen gas by steam reforming process over Ni/Al ₂ O ₃ catalyst, IJCRT, (ISSN:2320-2882) 6 (2018), 698-707. Impact Factor: 7.97. Citations: 0 (UGC Care) https://ijcrt.org/papers/IJCRT1801392.pdf
38	Lakshmana Naik Ramavathu, Bala Narsaiah Tumma, P Justin. Photocatalytic degradation studies of malachite green dye by hydrothermally synthesized Cobalt Vanadate nanoparticles. International Journal of Nano Dimension. (ISSN:2394-5311). 14 (2023), 145-156. Impact factor: 1.5, Citations:06 https://ijnd.tonekabon.iau.ir/article_695559.htmlsurfa
39	Hydrothermal Synthesis of nanostructured Nickel vanadate Nanocomposite for supercapacitor and photocatalytic applications, Materials Research Express (ISSN 2053-1591) Impact factor: 2.03, Citations: 0 (under second review)
40	Layered Bimetallic Transition Metal Oxides (ZnMO ₄ , M=Fe, Mo) in fabricating aqueous charge storage device applications. Journal of Energy Storage (ISSN 2053-1591) Impact factor: 9.40, Citations: 0 (under review)
41	Manganese Oxide Powerhouses: A Comparative Study of Supercapacitors and Li-ion Batteries Journal of Energy Chemistry (ISSN 2095-4956)., Impact factor: 13.60 , Submitted

CONFERENCE PROCEEDINGS:

1	Meher, S. K., Justin, P., Ranga Rao, G. (2012). Metal oxides as efficient anode catalysts for methanol electrooxidation. SMC Bulletin, (ISSN 2394-5087) 3, 34–40.
---	---

CONFERENCES:

1	Naik, R., Justin, P., BalaNarsaiah T. "The Hydrothermal Synthesis and Characterization of Nickel Metavanadate (Ni ₃ V ₂ O ₈) as Electrocatalysts for Fuel Cell", International Conference on System Automation, Reliability, Quality Control, Safety, Maintenance & Management (ICSARQCSMM2019) organized by Jawaharlal Nehru Technological
---	---

	University Anantapur, College of Engineering (Autonomous) Ananthapuramu on 11th-13th December 2019.
2	Naik, R., Justin, P., BalaNarsaiah, T. "Synthesis and Characterization of $\text{Ni}_3\text{V}_2\text{O}_8$ (Nickel metavanadate) as Electrocatalysts for Direct methanol Fuel Cells" International conference on Science Engineering and Technology (ICSET-2019) organized by Pallavi Engineering College, Nagole, Hyderabad on 27th-28th September 2019.
3	Oral Presentation: H. Seshagiri Rao, H., Nagaraja, P., Tirupati, P., Justin, P., Ranga Rao, G. One-pot Synthesis and Electrocatalytic performance of MoO_3 for Electrooxidation of Methanol, International Conference on Recent Advances in Chemical, Pharmaceutical and Life Process (RACPL-2019), 13 th to 15 th July 2019, Department of Analytical and Inorganic Chemistry, Andhra University, Vizag.
4	Oral Presentation: H. Seshagiri Rao, P. Nagaraja, P.N.R. Kishore, P. Justin, G. Ranga Rao, Synthesis & Characterization of $\text{SiO}_2\text{-HgO}$ Nanocomposites for catalytic applications (RACPL-2019), 13th to 15 th July 2019, Department of Analytical and Inorganic Chemistry, Andhra University, Vizag
5	Poster presentation: P. Justin and G. Ranga Rao, Enhanced activity for methanol electrooxidation on $\text{Pt-Gd}_2\text{O}_3/\text{C}$ catalysts, Annual IIT Madras Chemistry Symposium and the First Mid-Year Meeting of the Chemical Research Society of India , July 12–13, 2006, Department of Chemistry, IIT-Madras, Chennai, India.
6	Oral presentation: P. Justin and G. Ranga Rao, Enhanced activity for methanol electrooxidation on $\text{Pt-V}_2\text{O}_5/\text{C}$ catalysts, 18th National Symposium and Indo-US Seminar on Catalysis , April 16–18, 2007, Indian Institute of Petroleum, Dehra Dun, India.
7	Poster presentation: P. Justin and G. Ranga Rao, Zirconium oxide promoted Pt/C composite catalysts for electroreduction of oxygen, International conference on advanced materials (ICAM-2008) , February 18–21, 2008, Mahatma Gandhi University, Kottayam, India.
8	Poster presentation: Sumanta K. Meher, P. Justin and G. Ranga Rao, "Synthesis, morphology and electrochemical studies of mesoporous nickel oxide" International Conference on Multifunctional Oxide Materials (ICMOM-2009) , April 16–18, 2009, Himachal Pradesh University, Shimla, India. (<i>Best paper award</i>)
9	Oral presentation: G. Ranga Rao, Sumanta Kumar Meher and P. Justin, Oxide and sulphide materials for electrochemical energy storage applications, First Indo-Italian Workshop on Frontiers of Fundamental & Industrial Electrochemistry: A Challenge for a better world , August 30–31, 2010, Department of Chemistry, University of Delhi, Delhi, India.
10	Oral presentation: B. Vijayakumar, P. Justin and G. Ranga Rao, Preparation, characterization and electrochemical properties of $\text{MnO}_2/\text{Montmorillonite K10}$ nanocomposite, International Conference on Analytical Science, ICAS-2010 , November 24–27, 2010, IMA House, Kochi, India.
11	Oral presentation: Sumanta Kumar Meher, P Justin and G. Ranga Rao, Controlled synthesis and characterization of layered cobalt oxide (Co_3O_4) superstructures for high-performance supercapacitor applications, 9th International Symposium on Advances in Electrochemical Science and Technology , December 02–04, 2010, Hotel Green Park, Chennai, India.

BOOK CHAPTER:

1	The flexible and printed energy storage devices for foldable portable electronic devices applications. IOP Publication, Accepted and waiting for online availability
---	--

INVITED TALK: 5

1. P Justin, Hard template to soft template-controlled synthesis of nanomaterials for electrochemical energy applications, Webinar Series on Electrochemical Applications–2020, June 30, 2020, Department of Chemistry, B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai, Tamil Nadu, India
2. P Justin, The supercapacitor as a versatile energy storage device for renewable energy Storage, National Webinar on Recent Trends in Materials Chemistry–2020, October 17, 2020, Department of Chemistry, Rajiv Gandhi University of Knowledge Technologies-AP, RGUKT-RK Valley, Idupulapaya, Tamil Nadu, India
3. P Justin, Passivity: From basics to design of corrosion resistant alloys National Conference on Recent Advances in Metallurgy and Material Science–2015 (RAMM-2k15), March 11, 2015, YSR College of Engineering of YVU, Proddatur, YSR District Andhra Pradesh, India
4. P. Justin, Passivity, influencing parameters and design of corrosion resistant alloys for engineering applications, national conference on advances in chemical and nuclear technology-2014 (ACNT-2014), Marthandam (TN) on February 14, 2013, Nesamony memorial Christian college, Marthandam, Tamilnadu, India
5. P. Justin, Materials for direct methanol fuel cells and supercapacitor applications, Current research trends and developments in chemical sciences–2013 (CRTDCS–2013), March 9, 2013,

SHORT-TERM COURSES:

1. Attended the “SERC Summer School on Fuel-Cell” organized by the Department of Chemistry, IIT, Bombay, India
2. Attended the “Orientation Programme in Catalysis Research” sponsored by the Department of Science and Technology, held at IIT-Madras, Chennai, India
3. Completed “Materials Science” course organized by Centre for Faculty Development, Anna University, Chennai, India
4. Attended the “Human Resource Development for Principals and Senior Faculty of Engineering Colleges” sponsored by AICTE, held at NICE, Kanyakumari District, India
5. Completed “Principles of Environmental Science and Engineering” course organized by Centre for Faculty Development, Anna University, Chennai, India
