

Resume of Divesh Narayan Srivastava

Contact Details:	Postal Address: Marine Elements and Marine Environment Division. CSIR-Central Salt & Marine Chemicals Research Institute Gijubhai Badheka Marg Bhavnagar – 364001 (Gujarat) Permanent Address: 89, Shivaji Nagar, Mahmoorganj Varanasi – 221010 (Uttar Pradesh) Email: dnsrivastava@csmcri.res.in diveshsrivastava@hotmail.com Mobile: +91-9879581694 Website: https://csmcri.irins.org/profile/226220 https://diveshcsmcri.wixsite.com/divesh
Education:	Banaras Hindu University, Varanasi, India Ph.D. in Chemistry (Chemistry), December 1999. Topic: Studies on Preparation, Characterization and Applications of Polymer Composites of Charge Transfer Materials. Banaras Hindu University, Varanasi, India M.Sc. in Chemistry (Physical Chemistry), July 1993. Banaras Hindu University, Varanasi, India B.Sc. in Chemistry (Hons.), July 1991.
Basic Skills:	Electrochemical sensors, Electrocatalysis (Water splitting, Green Hydrogen), Tailored/ Modified Electrodes, Conducting polymer composite
Work Experience	• Chief Scientist (CSIR) [27 July 2022 till date]. • Professor (AcSIR) [27 July 2017 till date] • Senior Principal Scientist (CSIR) [27 July 2017 to 26 July 2022]. • Principal Scientist (CSIR) [27 July 2012 to 26 July 2017]. • Associate Professor (AcSIR) [27 July 2012 to 26 July 2017]. • Assistant Professor (AcSIR) [12 February 2011 to 26 July 2012]. • Senior Scientist (CSIR) [27 July 2009 to 26 July 2012]. • Scientist (Fellow) (CSIR-CSMCRI, Bhavnagar) [08 October 2007 to 26 July 2009]. • Research Associate (IRCC, IIT-Bombay) [02 May 2003 to 05 October 2007]. • Research Scientist (Media Lab Asia) [02 May 2002 to 30 April 2003]
Recognized Ph.D. Guide	• Academy of Scientific and Innovative Research (AcSIR). • Charusat University of Science and Technology (CHARUSAT), Changa, Gujarat.
Courses Offered:	• Analytical Tools and Instrumentation. • Advanced Electrochemistry. • Electrical and Electrochemical Characterization of Materials. • Conducting polymers.

Subject Expert Current:

- Empanelled as **Adviser/ Subject Expert to Union Public Service Commission.**
- External expert in the **Board of Studies** of Department of Chemistry, **Charotar University of Science and Technology**, Changa (Gujrat). [01-06-2022 to 31-06-2025].
- External expert in the **Board of Studies** of Department of Chemistry, **Indus University**, Ahmedabad. [May 2021 to Till date].
- Member **Research Council (RC)** of **Charotar University of Science and Technology**, Changa (Gujrat). [May 2024 to Till date].
- Doctoral Advisory Committee (DAC) member at **Pandit Deendayal Energy University (PDEU)**, Gandhinagar and **Charotar University of Science and Technology**, Changa (Gujrat)

Past:

- Member Advisory Committee for the implementation of **University Grants Commission Career Advancement Scheme (CAS)** to Department of Chemistry, **Sardar Patel University**, Vallabh Vidyanagar. [05-07-2018 to 31-03-2023].
- Member of “Water Quality for Industrial Purposes” Sectional Committee, CHD 13 of **Bureau of Indian Standards**. [01-04-2013 to 31-03-2021].

- Administration**
- Appellate Authority under the provisions of Section 19 (1) of the Right of Information Act, CSIR-CSMCRI [28-02-2020 to till date].
 - Member, Strategic Business Development Committee CSIR-CSMCRI. [02-01-2018 to till date].
 - Chairperson, Technical Purchase Committee CSIR-CSMCRI. [22-08-2023 to till date].
 - Member, Standing Publications, Ethics and Scientific Vigilance committee. [23-01-2021 to till date].

- Previous Administrative Experience**
- Coordinator, AcSIR@CSIR-CSMCRI [18 July 2018 to 17 July 2024].
 - Member, Technical Purchase Committee CSIR-CSMCRI. [28-06-2019 to 21-08-2023].
 - Head, HR Cell [11-10-2019 to 19-07-2022].
 - Member, Official Language Implementation Committee [01-04-2013 to 31-03-2022].
 - Member, Local Grievance Committee as per CSIR Grievance Procedure. [11-06-2018 till 10-06-2020].
 - Facility-in-Charge (Electron Microscopy) [08-10-2007 till 31-12-2019].
 - Member, Purchase Committee. [16-04-2018 to 27-06-2019].
 - Convener, Student Affairs Committee. [15-02-2016 till 01-10-2018].
 - Assistant Supervisor, CSIR-UGC NET Examination [01-06-2014 to 30-06-2019].
 - Assistant Coordinator, CSIR-UGC NET Examination [June 2016].
 - Biennial and Annual Report Committees [Member (2010-12; 2012-14); Chairperson (2014-16, 2016-17, 2017-18, 2018-19, 2019-20, 2020-21)]
 - Vice-chairman, canteen committee. [01-04-2013 till 31-03-2015]

**Recognition/
Scholarship:**

- **Recognition:**
A) Empaneled as an Adviser/ Subject Expert by the Union Public Service Commission, New Delhi.

B) Member Executive Council, Gujarat Science Academy. (2023-2027)

- **Fellowships:**
 - A) Fellow, Gujarat Science Academy (2025 onwards).
 - B) Associate Fellow, Gujarat Science Academy (2015-2025).
- **Scholarships:**
 - A) Junior Research Fellowship (UGC) (08.10.1994 to 07.10.1996), **BHU**.
 - B) Senior Research Fellowship (UGC) (08.10.1996 to 07.10.1999), **BHU**.
 - C) Senior Research Fellowship (Extended) (CSIR) (27.04.2000 to 04.12.2000), **IITB**.
 - D) Post-Doctoral Fellowship (Council of Higher Education of Israel, Jerusalem) (11.12.2000 to 30.12.2001), **Bar-Ilan University**, Israel.
- **Membership:**
 - A) Life member of India Chemical Society [F/6404 (LM)].
 - B) Life member of Indian Society for Electroanalytical Chemistry (LM-67).
 - C) Life member of Electron Microscopy Society of India [LM-925].
 - D) Life member of Indian Solid State Ionics Society.
- GATE-94

Ongoing Projects:

- **Title:** Wastewater remediation through electrochemical anodic oxidation using LDH- MXene Composites.
Funding Agency: Gujarat State Biotechnology Mission (GSBTM)
Total Budget: ₹ 19 Lakhs
Role: PI.
- **Title:** Remediation of toxicants from seawater & wastewater and development of materials for the recovery of precious metals and green hydrogen. (MLP-0072)
Funding Agency: Internal Project.
Total Budget: ₹ 105 Lakhs*
Role: Co-PI.
- **Title:** Development of new analytical methodologies of particular relevance to the institute's on going R & D programmes and providing of centralised analytical support. (OLP-0007)
Funding Agency: Internal Project.
Total Budget: NA (Continuous Project)
Role: Team Member.

Completed Projects:

S.N	Title	Cost in Lakhs (₹)	Duration	Role as PI/ Co-PI	Agency
1.	Developing tailored portable lead sensor based on stripping voltammetry. (GAP-1057)	19.500	3 Years	PI	IDP-DST
	Start Date: 22/09/2010				
	Completion Date: 21/09/2013 Participating Industry: ELICO Limited, Hyderabad.				
2.	Developing Secondary Battery using Magnesium Clusters Supported on Porous Conducting Substrate as Active Negative Electrode Material. (OLP-052)	6.500	2 Years	PI	CSIR
	Start Date: 16/09/2010				

	Completion Date: 15/09/2012				
3.	Ion Conducting polymer-metal nanoconductive (ICMPN) based electrochemical sensors for Biological Fluids. Start Date: 03/08/2011 Completion Date: 02/08/2013	20.000	2 Years	Co-PI	SERB
4.	Multifunctional electrodes & Electrolytes for Future Technologies. (CSC-0101) Start Date: 01/04/2012 Completion Date: 31/03/2017	47.000*	5 Years	PI	CSIR (XII FYP Project)
5.	Smart Functional Materials for Sensing, Extraction and Storage applications for Important Metal Ions, Anions and Molecules. (OLP-0035) Start Date: 01/04/2013 Completion Date: 31/03/2016	60.000 [#]	3 Years	Team member	Internal project
6.	New materials for sensing and selective Extraction. (OLP-0072) Start Date: 01/04/2013 Completion Date: 31/03/2016	108.000 [#]	3 Years	Team member	Internal Project Partially by DST & BRNS
7.	Sensing materials for field applications in environmental monitoring. (OLP-0017) Start Date: 01/04/2016 Completion Date: 31/03/2019	165.000 [#]	3 Years	Team member	Internal project
8.	Optical & Electrochemical assay to Biomarkers. (MLP-0018) Start Date: 01/04/2016 Completion Date: 31/03/2019	67.000 [#]	3 Years	PI	Internal project
9.	Catalysis for sustainable development. (HCP-0009) Start Date: 21/11/2017 Completion Date: 31/03/2020	235.000**	27 Months	Team member	CSIR Mission Mode Project
10.	Development of low-cost device for measurement of cysteine in human blood plasma. (GAP-2089) Start Date: 17/06/2018 Completion Date: 16/06/2020 Participating Industry: Shukla Ashar Impex Pvt. Ltd. Rajkot.	43.200	2 years	Co-PI	TDP-DST
11.	Developing new materials and devices for recognition and remediation of the emerging pollutants. (MLP-0045) Start Date: 01/04/2013 Completion Date: 31/03/2016	80.000 [#]	3 Years	Co-PI	Internal project
# Maximum approved amount although final allocation varies. * Budget component belonging to my laboratory. ** Budget component belonging to CSIR-CSMCRI.					

Students:

PDF:

TWAS-CSIR Fellow:

Dr. Haleemat I. Adegoke, Senior Lecturer, Department of Chemistry, University of Ilorin, Ilorin, Nigeria (Completed)

SERB NPDF:

Dr. Nalin H. Maniya, Post-Doctoral Fellow, University of Notre Dame, USA
Ph.D.: SV NIT, Surat. (Completed)

Ph.D.:

Dr. Mosarrat Perween (2016), Faculty at Dolat-Usha Institute of Applied Science (VN South Gujarat University).

Dr. Rajeev Gupta (2017), Faculty at School of Science, ITM(SLS) Baroda University, Vadodara.

Dr. Gopala Ram Bhadu (2018), Senior Scientist, CSIR-CSMCRI.

Dr. Anirban Paul (2018), Research Scientist, University of Texas at Dallas, USA.

Dr. Dilip B. Parmar (2021), QC/ R&D Manager, Classic Chemicals India, Rajkot, India.

Dr. Kirti (2022), Post-Doctoral Fellow, Post-Doc Fellow, Germany.

Dr. Sunil Luhar (DST INSPIRE SRF) (2024), Researcher at RMIT, Australia.

Ms. Kinjal B. Patel (CSIR SRF) [Pursuing]

Ms. Rajeshree J. Bani (DST INSPIRE JRF) [Pursuing]

Ms. Krishnendu TV. (Project Assistant)

Ms. Aadhya Sharma (Diamond Jubilee Research Intern)

M.Sc. :

Pursuing – 0; Completed – 4

Summer Training:

Pursuing – 0; Completed – 7

M. Tech. :

Pursuing – 0; Completed – 1

**Technology/
Device**

Plastic Chip Electrode: The Plastic Chip Electrode (PCE) is a pioneering advancement in electroanalytical chemistry, leveraging precise polymer viscosity control to balance gravitational and buoyancy forces on filler particles, effectively preventing segregation. This approach maintains uninterrupted percolating channels, enabling the spontaneous formation of a bulk-conductive, self-supporting polymer composite chip without the need for external support. The PCE combines the advantages of the CPE (bulk conductivity and easy electrocatalyst mixing) with those of the SPE (self-supporting structure). Notably, it can **endure high electric current density**, and its unique biphasic morphology aids in **mitigating the "Bubble Effect"** during water-splitting reactions. Additionally, PCE introduces an innovative approach known as **"Differential Curing"** for loading additives. These distinctive properties position PCE as a versatile solution, finding applications in **Electrocatalysis, Electrochemical Sensors, Electrometallurgy, and Environmental Science** (particularly in the electro-degradation of pollutants like dyes), establishing it as a multipurpose electrode. Furthermore, PCE boosts **easy scalability**, a feature beyond the reach of SPE. We have successfully fabricated 6" × 6" electrodes, applying them in our experiments and supplying them to peer



groups. PCE has already secured patents in Japan (JP) and Great Britain (GB), with an Indian patent currently in the processing stage.

LapPot (Tailored Potentiostat):

The potentiostat plays a crucial role in the field of electrochemistry, serving as an indispensable instrument. Although numerous companies produce high-precision potentiostats, their significant cost renders them less accessible for widespread use in academic or initial research settings.



Despite the availability of a few low-cost alternatives in the market, they remain beyond the financial reach of many academic institutions. Consequently, there emerged a necessity for an affordable potentiostat circuit that maintains respectable precision and accuracy. Addressing this need, “LapPot” presents a viable solution. **This potentiostat variant trims certain advanced features found in typical commercial counterparts to achieve a lower cost.** Despite these limitations, “LapPot” retains essential functionalities such as the selection of initial and final scan voltages, variable scan rates, the number of scan cycles, and equilibration cycles. The device integrates the display, keypad, and memory unit into a single, streamlined unit, concealing all wiring. Notably, “LapPot” employs an innovative approach by connecting electrodes through USB, **a technology for which a patent has been filed.** Moreover, “LapPot” allows connection to a PC/laptop for data download via serial communication, facilitating further analysis. LapPot supports a range of experiments, including performing **Cyclic Voltammetry (CV)**, verifying the **Randles–Ševčík equation**, **electropolymerization** of aniline, and **copper reduction** (deposition).

All polymer electrolyzer: In developing an all-polymer electrolyzer for direct seawater electrolysis, we’ve focused on creating a system that’s both cost-effective and resilient in harsh marine environments. By using a less corrosive plastic chip electrode and constructing all compartments from PVC, we aimed to address the challenges of seawater’s corrosive nature. The device uses PME developed by other division with in the laboratory, which contribute to the electrolyzer’s efficiency and sustainability. Initial results have been encouraging, and we’re working on further refinements to enhance its performance, moving closer to scalable green hydrogen production from seawater. As a value-added process, we’re also utilizing the anodic reaction to degrade dye from textile industry wastewater, simultaneous to HER on cathode, an additional innovative approach that underscores our commitment to environmental sustainability.



Commercialization

Being an out-of-box product, a bottom-up approach has been adopted for the commercialization of PCE. The electrode has been provided to peers, to generate demand of the product before formal entry in the market. As a consequence, now

we are getting orders to purchase the electrode from many reputed institutions like IITs. Formal market entry is due.

iCreate (International Centre for Entrepreneurship and Technology) has identified the Plastic Chip Electrode (PCE) as one of 15 pan-CSIR technologies for joint commercialization and translation projects. Under this initiative, iCreate has selected M/s Kaappon Analytics India Pvt. Ltd., a spin-off from IIT Madras, for incubation. The start-up plans to integrate PCE into a microfluidic system.

List of buyer of PCE:

S.N.	Buyer	Item	Numbers	Times
1.	M/s. Advantek Instruments, Nerul, Navi Mumbai-400706	PCE (normal Size)	200	Once
2.	PDEU, Gandhinagar	PCE (6"×6")	04	Once
3.	Department of Chemistry, IITD	PCE (6"×6")	15	Thrice
4.	Department of Chemistry, IITB	PCE (6"×6")	15	Twice
5.	Department of Chemistry, IEST, Shibpur, Howrah.	PCE (6"×6")	02	Once
6.	Department of Chemistry, IITGn	PCE (6"×6")	05	Once
7.	Ashoka University, Sonapat, Haryana	PCE (6"×6")	02	Once
8.	Sardar Patel University Vallabh Vidyanagar	PCE (6"×6")	01	Once
9.	Department of Chemistry, NIT Sikkim	PCE (6"×6")	02	Once
10.	CHARUSAT Changa	PCE (normal Size)		2-3 times
11.	To IIT-Kp & IIT-M on courtesy basis			

**Patents
(Granted):**

1. An improved next generation off-laboratory polymer chip electrode [Indian (IN474969), Japanese (JP6779863 B2), Great Britain (GB2539862; A)].

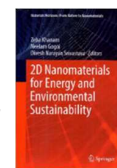
**Patents
(Filed):**

1. A process for the preparation of natural salt formulations for seawater substitution, mineral fortification, PCT Int. Appl. (2013), WO 2013/098857 A1.
2. Gold coated natural fibre as electrode materials and process for preparation thereof, PCT Int. Appl., (2015) WO 2015/040639 A1.
3. An improved next generation off-laboratory polymer chip electrode (PCT [WO 2015170344; A1], US [US20170082576]).
4. Fabrication of plastic chip electrode cartridge and its applications in electrochemical & electroanalytical techniques. [PCT Int. Appl. (2017), WO 2017130218; A1].
5. The LapPot –low cost customized potentiostat and details thereon. [Indian 202211006595; dated: 07 Feb 2022]
6. Electrocatalytically Active Thin Films For Oxygen Production From Alkaline Water/ Seawater and Method of Preparation Thereof. [Indian 202311006903; dated: 02 Feb 2023]

Editing:

Book Editing:

1. 2D Nanomaterials for Energy and Environmental Sustainability; Zeba Khanam; Neelam Gogoi; Divesh Narayan Srivastava (eds), Springer, Singapore (2022); Hardcover ISBN 978-981-16-8537-8.
2. Advanced Electrochemical Materials and Devices for Clean Energy and Environment; Zeba Khanam; Divesh Narayan Srivastava (eds), Elsevier S&T Books (1st Edition - May 1, 2025) ISBN 9780443235825.



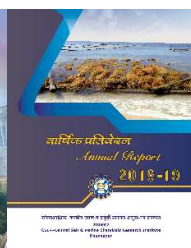
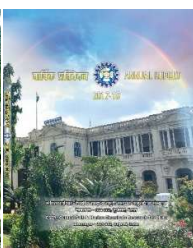
Guest Editor to Journal:

1. Materials Today: Proceedings of the Nanomaterials for Energy Conversion and Storage Application-2022 (NECSA 2022), Volume-73, Number-4 (2023, Elsevier).



Internal Publication:

Concept, Design and Editing of Annual Reports of CSIR-CSMCRI: 2016-17; 2017-18; 2018-19; 2019-20; 2020-21.



- Book Chapters**
1. *In-Situ* Tunable Electronic Junction Based on Conducting Polymers, D. N. Srivastava in Electroactive Polymers: Materials and Devices. Volume-I, eds. Neeraj Khare, S. A. Hashmi, Amita Chandra, Amreesh Chandra, Series ed. Suresh Chandra. Allied Publishers Pvt. Ltd. (2007) [ISBN: 81-8424-149-6].
 2. Cryptand-Conducting Polymer Hybrid Material for Conductometric Sensing of Lead (II) Ion, D. N. Srivastava in Electroactive Polymers: Materials and Devices. Volume-II, eds. S. A. Hashmi, Amita Chandra, Amreesh Chandra, Series ed. Suresh Chandra. Allied Publishers Pvt. Ltd. (2007) [ISBN: 81-8424-246-8].
 3. Medical Diagnostics Based on Electrochemical Biosensor, Nalin H. Maniya, Divesh N. Srivastava in Biointerface Engineering: Prospects in Medical Diagnostics and Drug Delivery eds. Pranjal Chandra and Lalit M. Pandey. Springer Singapore (2020) [ISBN: 978-981-15-4789-8].
 4. Prospective on 2D Nanomaterials for Energy and Environment: Challenges, Commercial Aspect, and the Future Research Endeavor, Zeba Khanam, Neelam Gogoi, Divesh N Srivastava in 2D nanomaterial composites for Energy and Environmental sustainability eds. Zeba Khanam, Neelam Gogoi, Divesh N Srivastava. Springer Nature, Singapore (2022) [ISBN: 978-981-16-8538-5]

Publications: 131

h index: 38; Total Citations: 4774 (as on 05 November 2024) [Google Scholar]

List of Publications:	Citations by others	Impact Factor-
1. Unveiling the Robustness: Comprehensive Analysis of Plastic Chip Electrode Stability in Diverse Environments. Rajeshree J. Bani, Krishnendu TV, Divesh N. Srivastava . Chem Asian J. (2025), (1 of 10).		
2. Efficient Oxygen Evolution Reaction on Catalyst-Free Acid-Functionalized Plastic Chip Electrodes. Kirti, Rajeshree J. Bani, Krishnendu T. V., Gopala Ram Bhadu, Divesh N. Srivastava . Energy Technol. 13 (2025) 2401259 (pp 1 to 12)		3.6 (2023)
3. Empowering Sustainable Energy: Lead-Coated Plastic Chip Electrodes for Effective CO ₂ Reduction. Kirti, Smit J. Balar, Ankush V. Biradar, Divesh N. Srivastava . Langmuir . 41 (2025), 1927-1936.		3.7 (2023)
4. Ni-Co doped M-type strontium hexaferrite as electrode material for Oxygen Evolution Reaction. Rajeshree J. Bani, Krishnendu T. V., Sachin Kumar Godara, Jayesh Chaudhari, Divesh N. Srivastava , Gopala Ram Bhadu. Electrocatalysis . 16 (2025) 250-262.		2.7 (2023)
5. Utilizing Electrooxidation for Textile Effluent Wastewater Treatment and Simultaneous Electrocatalytic Hydrogen Production: Transforming Waste into Energy and Promoting Water Reuse in a Circular Economy. Vibhuti Prajapati, Ayushi Shah, Rahul Patel, Nandini A Trivedi, Divesh N. Srivastava , Pratik M. Pataniya, CK Sumesh. Renewable Energy . 237 (2024) 121733.		9.0 (2023)
6. Iron Nanoparticle Engineered N-doped Graphitic Carbon Composite as a Binary Electrocatalyst for Overall Water Splitting and Supercapacitor. R. J. Bani, K. Ravi, K. B. Patel, R. Patidar, B. Parmar, A. V. Biradar, Divesh N. Srivastava , G. R. Bhadu. Int J Hydrogen Energy 88 (2024) 163-177.		8.1 (2023)
7. Conjugated Coordination Nanosheets with Molecular Rotors for Pseudocapacitors: Nanoarchitectonics and Enhanced Performance. R. R. Vishwakarma, K. B. Patel, S. K. Raj, Divesh N. Srivastava , A. K. Mandal. Chemistry: A European J (2024) e202402852.		3.9 (2023)
8. Early diagnosis of autoimmune Diseases through Electrochemical Biosensing using Modified Plastic Chip Electrode. Kinjal B. Patel, Sunil Luhar, Divesh N. Srivastava . Analytical Methods 16 (2024) 4971–4980.		2.7 (2023)
9. Self-assembled Conjugated Coordination Polymer Nanorings: Role of Morphology and Redox Sites for the Alkaline Electrocatalytic Oxygen Evolution Reaction. Vishwakarma Ravikumar Ramlal, Kinjal B. Patel, Savan K Raj, Divesh N. Srivastava , Amal Kumar Mandal. ACS Applied Materials & Interfaces 16 (2024) 26034-26043.	---	8.5 (2023)

10. Scalable synthesis of binder-free MXene based electrode for green hydrogen production. Vibhuti Prajapati, Ayushi Shah, **Divesh N. Srivastava**, Pratik M. Pataniya, and C. K. Sumesh. **Mater Sci Mater Electron** 35 (2024) 580 (11 Pages). --- 2.8 (2023)
11. Synthesis of conducting water-dispersible polyaniline particles and its template-guided patterning. Gopala Ram Bhadu, Jayesh C. Chaudhari, **Divesh N. Srivastava**. **Journal of Dispersion Science and Technology** 45 (2024) 529-537. --- 1.9 (2023)
12. Measurement of the malignancy marker spermine in human biofluids using smartphone readout and impedance techniques: Analytical validation using HPLC. Riya Ghosh, Sunil Luhar, Snehasish Debnath, Kinjal B. Patel, Kamesh V. Baskarand, **Divesh N. Srivastava**, Pabitra B. Chatterjee. **Sens. Actuators B** 406 (2024) 135390. --- 8.0 (2023)
13. Nickel oxide doped ceria nanoparticles (NiO@CeO₂) for boosting oxygen evolution reaction and enhancing stability. Kinjal B. Patel, M. Mariyaselvakumar, Gaurav Vyas, Jayesh C. Chaudhari, Rajesh Patidar, Kannan Srinivasan, **Divesh N. Srivastava**, Gopala Ram Bhadu. **Applied Surface Science** 649 (2024) 159212. --- 6.3 (2023)
14. Silica supported biosynthesized silver nanoparticles as effective adsorbent and photocatalyst for removal of methylene blue from water. T.K. S. V. Nair, S. Sata, S. Luhar, **Divesh N. Srivastava**, M. K. Mishra, K. M. Vyas. **Journal of Molecular Liquids** 393 (2024) 123687. --- 5.3 (2023)
15. Interference-free multimodal biosensing of adrenaline over other neurotransmitters: Role of 2-iminomethylenephanylboronic acid as the signal transduction unit of fluorescence and impedance. Arnab Bhattacharya, Kinjal B. Patel, Riya Ghosh, **Divesh N. Srivastava**, Pabitra B. Chatterjee. **Sens. Actuators B** 398 (2024) 134772. --- 8.0 (2023)
16. Fluorescent Carbon Dots from Snake Plant for Applications as Probe for Optical and Electrochemical Sensing of Hg²⁺ and Fe³⁺ and Bio-Imaging Agent. Ankita Sharma, Kirti, Alka Kumari, **Divesh N. Srivastava**, Parimal Paul. **ChemistrySelect** 8 (2023) e202301249. --- 1.9 (2023)
17. Nanopalladium-Anchored MXene Nanoflowers for Boosting Electrocatalytic Hydrogen Evolution Reaction. Savan K Raj, Kinjal B. Patel, Vartika Sharma, **Divesh N. Srivastava**, Vaibhav Kulshrestha. **Energy & Fuels** 37 (2023) 16856–16865. --- 5.2 (2022)
18. Plastic Chip Electrode: An Emerging Multipurpose Electrode Platform. Kinjal B. Patel, Sunil Luhar, **Divesh N. Srivastava**. **Chem Asian J.** (2023), e202300690 (1 of 17). [Invited Review Article] --- 3.5 (2023)
19. Producing green hydrogen in an efficient way using a nexus of waste-biomass derived catalyst and cost-effective & scalable electrode platform. Kirti, Amravati S. Singh, Kinjal B. Patel, Ashish A. Patil, Ankush V. Biradar, **Divesh N. Srivastava**. **New J. Chemistry** 47 (2023) 12208-12216. --- 2.7 (2023)
20. A Highly Sensitive Luminescent Upconversion Nanosensor for Turn-On Detection of As³⁺. Papri Mondal, Jit Satra, **Divesh N. Srivastava**, Gopala Ram Bhadu, and Bibhutosha Adhikary. **Inorganic Chemistry** 62 (2023) 8874–8885. --- 4.3(2023)

21. Hierarchical polyoxometallate confined in woven thin film for single cluster catalysis: Simplified electrodes for far-fetched O₂ evolution from seawater. Kirti, Priyanka Dobarra, Ashish Maurya, Ashwini Kaushik, Piyush Kanani, Parasmani Rajput, Shambhu Nath Jha, Bidisa Das, **Divesh N Srivastava**, Shilpi Kushwaha, Ketan Patel. **ACS Catalysis** 13 (2023) 4587-4596. 01 13.7(2023)
22. Metal-organic framework derived core-shell nanoparticles as high performance bifunctional electrocatalysts for HER and OER. Kinjal B. Patel, Bhavesh Parmar, Krishnan Ravi, Rajesh Patidar, Jayesh C. Chaudhari, **Divesh N. Srivastava**, Gopala Ram Bhadu. **Applied Surface Science** 616 (2023) 156499. 11 6.3 (2023)
23. Improving electrochemical sensitivity of screen-printed carbon electrodes by atmospheric pressure plasma jet treatment and electrochemical detection of dopamine. Kalyani Barman, Sunil Luhar, Ramkrishna Rane, **Divesh N. Srivastava**, Sudhir K. Nema, Sudeep Bhattacharjee. **Plasma Process Polym.** 20 (2023) e2200161 (pp 1-13). --- 2.9 (2023)
24. In-situ evolution of bimetallic Fe/ Ni/ Co nanohybrids on MXene for improved electrocatalytic oxygen evolution reaction. Savan K. Raj, Kirti, Vartika Sharma, **Divesh N. Srivastava**, Vaibhav Kulshrestha. **International Journal of Hydrogen Energy** 48 (2023) 37732-37745. 01 8.1 (2023)
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