Resume of Divesh Narayan Srivastava

Contact Details:

Postal Address: Analytical and Environmental Science Division & CIF.
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
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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,

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 **<u>Current</u>:**

- External expert in the **Board of Studies** of Department of Chemistry, **Indus**

University, Ahmedabad. [17-05-2021 to till date].

- 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].
- Doctoral Advisory Committee (DAC) member for Mr. Anuj Jain, School of Energy Technologies, **Pandit Deendayal Energy University** (PDEU), Gandhinagar.

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

- Coordinator, AcSIR@CSIR-CSMCRI [18 July 2018 to till date].
- 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

- 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) Member Executive Council, Gujarat Science Academy. (2023-2025)

- **Fellowships:**

  A) Associate Fellow Gujarat Science Academy.

- **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 Socienty.
- 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) **Start Date:** 22/09/2010 **Completion Date:** 21/09/2013 **Participating Industry:** ELICO Limited, Hyderabad.	19.500	3 Years	PI	IDP-DST
2.	Developing Secondary Battery using Magnesium Clusters Supported on Porous Conducting Substrate as Active Negative Electrode Material. (OLP-052) **Start Date:** 16/09/2010 **Completion Date:** 15/09/2012	6.500	2 Years	PI	CSIR
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	47.000*	5 Years	PI	CSIR (XII FYP

	Technologies. (CSC-0101) **Start Date:** 01/04/2012 **Completion Date:** 31/03/2017				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), Assistant Professor, Dolat-Usha Institute of Applied Science (VN South Gujarat University).
Dr. Rajeev Gupta (2017), Assistant Professor, Smt. M. D. Patel Institute of Physical Science and Research, Anand (Sardar Patel University).
Dr. Gopala Ram Bhadu (2018), 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, Centro de Investigación Cooperativa en Biomateriales CIC biomaGUNE, Spain
Mr. Sunil Luhar (DST INSPIRE SRF) [Pursuing]
Ms. Kinjal B. Patel (CSIR SRF) [Pursuing]
Ms. Rajeshree J. Bani (DST INSPIRE JRF) [Pursuing]
Ms. Krishnendu T. V. (Project Assistant)

M.Sc. :
Pursuing – 0; Completed – 4

Summer Training:
Pursuing – 0; Completed – 7

M. Tech. :
Pursuing – 0; Completed – 1

Technology/ Device

Plastic Chip Electrode: Screen printed electrodes (SPE) find extensive use in commercial products primarily designed for sensing applications in environmental, clinical, or agri-food domains. However, these electrodes exhibit poor mechanical stability and are susceptible to delamination caused by mechanical shocks, high currents, or aging. Consequently, there is a pressing need for an enhanced alternative to SPE, and this need is met by the Plastic Chip Electrode (PCE). Functioning as a **bulk conducting polymer composite electrode**, PCE eliminates the drawbacks associated with SPE. 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):

P 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).

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 Plastic Chip Electrode among 10 pan-CSIR technologies for joint projects for commercialization and translation in the first 18 months**.**

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, IIEST, Shibpur, Howrah.	PCE (6"×6")	02	Once
6.	Department of Chemistry, IITGn	PCE (6"×6")	05	Once
7.	CHARUSAT Changa	PCE (normal Size)		2-3 times

Patents (Granted):

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

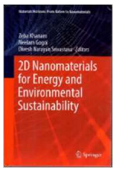
Patents (Filed):

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 threrof, PCT Int**.** Appl**.**, **(**2015**)** WO 2015/040639 A1**.**
3. An improved next generation off-laboratory polymer chip electrode **(**PCT **[**WO 2015170344; A1**]**, Indian **[**2014DE01254; A**].**
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:

<u>Book Editing</u>:

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 **(**Proposal accepted, compilation in progress**)**;

<u>Guest Editor to Journal</u>:

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

2. Electrochemical Platforms for Health and Environmental Monitoring**. (**2024, Frontiers in Chemistry - section Analytical Chemistry**).**

<u>Internal Publication</u>:

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: 121

h index: 30; Total Citations: 2852 (as on 05 November 2023) [Excluding self citation]

List of Publications:

	Citations by others	**Impact Factor-**
1. 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** xxx (2024) xxx.		
2. Nickel oxide doped ceria nanoparticles ($NiO@CeO_2$) 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.		
3. 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.		
4. Interference-free multimodal biosensing of adrenaline over other neurotransmitters: Role of 2-iminomethylenephenylboronic 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.	---	8.400 (2022)
5. Fluorescent Carbon Dots from Snake Plant for Applications as Probe for Optical and Electrochemical Sensing of Hg^{2+} and Fe^{3+} and Bio-Imaging Agent. Ankita Sharma, Kirti, Alka Kumari, **Divesh N. Srivastava**, Parimal Paul. **ChemistrySelect** 8 (2023) e202301249.	---	2.307 (2022)

6. 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.	---	5.300 (2022)
7. 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]	---	4.100 (2022)
8. 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.	---	3.925 (2022)
9. A Highly Sensitive Luminescent Upconversion Nanosensor for Turn-On Detection of As^{3+}. Papri Mondal, Jit Satra, **Divesh N. Srivastava**, Gopala Ram Bhadu, and Bibhutosh Adhikary. **Inorganic Chemistry** 62 (2023) 8874–8885.	---	5.436 (2022)
10. Hierarchical polyoxometallate confined in woven thin film for single cluster catalysis: Simplified electrodes for far-fetched O_2 evolution from seawater. Kirti, Priyanka Dobaria, 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	13.700 (2022)
11. 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	6.700 (2022)
12. 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** (2023) [Published online]	---	2.262 (2022)
13. 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).	---	3.877 (2022)
14. 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	7.2 (2022)
15. Account of Ni/NiO Nanoparticle-Supported N-Doped Graphitic Carbon Derived from Sugarcane Waste as a Sustainable Electrocatalyst for Oxygen Evolution Reaction. Amravati S. Singh, Kirti, **Divesh N. Srivastava**, Ankush V. Biradar. **ACS Appl. Energy Mater.** 05 (2022) 14945−14956.	01	6.400 (2022)
16. Single-Step Synthesis of Well-Ordered Hierarchical Nickel Nanostructures for Boosting the Oxygen Evolution Reaction. Savan K. Raj, Kirti, Vartika	---	5.300 (2022)

Sharma, **Divesh N. Srivastava**, Vaibhav Kulshrestha. **Energy Fuels** 36 (2022) 13786−13795.		
17. Tetraphenylporphyrin Decorated Bi_2MoO_6 Nanocomposite: Its Twin Affinity of Oxygen Reduction Reaction and Electrochemical Detection of 4-Nitrophenol. Sunanda Pal, Abhimanyu Sarkar, Jit Satra, Papri Mondal, Purbali Ray, **Divesh N. Srivastava**, Bibhutosh Adhikary, Bibhutibhushan Show. **Inorg. Chem.** 61 (2022) 17402−17418.	01	4.600 (2022)
18. An impedometric sensor based on boronic acid @ plastic chip electrode for sensitive detection of prostate cancer biomarker spermine. Sunil Luhar, Riya Ghosh, Pabitra B. Chatterjee, **Divesh N. Srivastava**. **Biosensors and Bioelectronics X** 12 (2022) 100219 (pp 1-7).	01	IF not available yet
19. Nano-structured nickel trithiocarbonate complex supported on g-C_3N_4 as an efficient electrocatalyst for urea electro-oxidation. D. Ghosh, R. Banerjee, G. R. Bhadu, S. N. Bhaduri, A. Mondal, **Divesh N. Srivastava**, P. Biswas. **Mater. Adv.**, 10 (2022) 6831- 6841.	---	5.000 (2022)
20. A Biodegradable Polymer-Based Plastic Chip Electrode as a Current Collector in Supercapacitor Application. Kirti, Rajeev Gupta, **Divesh N. Srivastava**. **Electrochem** 03 (2022) 379–396.	01	1.777 (2022)
21. Surface tailored graphite–polymer composite electrodes through cold plasma for electrochemical applications. Sunil Luhar, Ramkrishna Rane, **Divesh N. Srivastava**. **Plasma Processes and Polymers** 19 (2022) e2200048 (pp1-9).	---	3.877 (2022)
22. Nickel sulphide decorated nitrogen rich ordered mesoporous carbon (NOMC) as an efficient catalyst for the electrocatalytic oxidation of urea in alkaline medium. Rumeli Banerjee, Debojit Ghosh, Kirti, Dipak Kr. Chanda, Anup Mondal, **Divesh N. Srivastava**, Papu Biswas. **Electrochimica Acta** 408 (2022) 139920 (pp 1-13)	08	7.336 (2022)
23. Bulk synthesis of tungsten-oxide nanomaterials by a novel, plasma chemical reactor configuration, studies on their performance for waste-water treatment and hydrogen evolution reactions. Mizanur Rahman, Trinayan Sarmah, Pubali Dihingia, Rahul Verma, Swati Sharma, Kirti, **Divesh N. Srivastava**, Lalit M. Pandey, Mayur Kakati. **Chemical Engineering Journal** 428 (2022) 131111 (12 Pages).	11	16.744 (2022)
24. Prospects of using plastic chip electrodes at high current density: Recovery of zinc from acidic sulfate solutions. Dilip B. Parmar, Jayesh C. Chaudhari, **Divesh N. Srivastava**. **Journal of the Indian Chemical Society** 98 (2021) 100226 (9pp).	01	0.243 (2021)
25. Photosensitive electrocatalysts based on Ni–WS_2 nanohybrids for hydrogen evolution reaction. Pratik M Pataniya, Meswa Patel, **Divesh N Srivastava**, C K Sumesh. **Nanotechnology** 32 (2021) 505407 (9pp).	07	3.953 (2021)
26. Electrochemical detection of heat shock protein 70 over cost-effective plastic chip electrode platform. Nalin H. Maniya, Kirti, Laxman N. Kadam, **Divesh N. Srivastava**. **Journal of the Taiwan Institute of Chemical Engineers**	06	5.477 (2021)

128 (2021) 11-19.

27. Improved OER performance on the carbon composite electrode through tailored wettability. Kirti, N. Nandha, P. S. Singh, **Divesh N. Srivastava**. **ACS Applied Energy Materials** 04 (2021) 9618−9626. — 04 — 6.959 (2021)

28. Graphitic carbon nitride embedded-Ag nanoparticle decorated-$ZnWO_4$ nanocomposite-based photoluminescence sensing of Hg^{2+}. Uday K. Ghorui, Jit Satra, Papri Mondal, Sourav Mardanya, Arpita Sarkar, **Divesh N. Srivastava**, Bibhutosh Adhikary, Anup Mondal. **Materials Advances** 02 (2021) 4041-4057. — 13 — NA

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