

Sl. No	Authors	Title	Journal name	Year
1	Domga, Karnan .M, OladoyinboFatai, Noumi Guy Bertrand, Tchatchueng Jean Bosco, Sieliechi Marie Joseph, Sathish-M and Deepak Pattanayak. K	A simple, economical one-pot microwave assisted synthesis of nitrogen and sulfur co-doped graphene for high energy supercapacitors	ElectrochimicaActa	2020
2	S. Mondal, Pitchiah E. Karthik, L. Sahoo, K. Chatterjee, M. Sathish and Ujjal K. Gautam, S. Mondal, Pitchiah E. Karthik, L. Sahoo, K. Chatterjee, M. Sathish and Ujjal K. Gautam,	High and reversible oxygen uptake in carbon dot solutions generated from polyethylene facilitating reactant-enhanced solar light harvesting	Nanoscale	2020
3	P. Thangasamy, J. Anandha Raj and M. Sathish	Transformation of multilayer WS ₂ nanosheets to 1D luminescent WS ₂ nanostructures by one-pot supercritical fluid processing for hydrogen evolution reaction	Materials Science in Semiconductor Processing	2020
4	S. Suresh Balaji, P. Anandhaganesh, MegalaMoorthy and M. Sathish	Efficient electrocatalytic activity for oxygen reduction reaction by Phosphorus doped graphene using Supercritical Fluid processing	Bulletin of Materials Science	2020
5	C. R. Kalaiselvi, P. Ravi, T. S. Senthil, M. Sathish, M. Kang	Synthesis of Ag and N-doped potassium tantalate perovskite nanocubes for enhanced photocatalytic hydrogen evolution	Materials Letters	2020
6	R. Rameshbabu, M. Sandhiya, G. Pecchi and M. Sathish	Effective Coupling of Cu (II) with BiOCl nanosheets for High Performance Electrochemical Supercapacitor and Enhanced Photocatalytic Applications	Applied Surface Science	2020
7	M. Manikandan, K. Subramani, M. Sathish and S. Dhanuskodi	Hydrothermal Synthesis of Cobalt Telluride Nanorods for High Performance Hybrid Asymmetric Supercapacitor	RSC Advances	2020

8	V. N. Rao, S. Pitchaimuthu, P. Ravi, M. Sathish, H. Han and S. M. Venkatakrishnan	Retorting Photocorrosion and Enhanced Charge Carrier Separation at CdSeNanocapsules by Chemically Synthesized TiO ₂ Shell for Photocatalytic Hydrogen Fuel Generation	ChemCatChem	2020
9	C. Murugan, M. Karnan, M. Sathish and A. Pandikumar	Construction of Heterostructure Based on Hierarchical Bi ₂ MoO ₆ and G-C ₃ N ₄ with Ease for Impressive Performance in Photoelectrocatalytic Water Splitting and Supercapacitor	Catalysis Science & Technology	2020
10	P. Ravi, V. Navakoteswara Rao, M.V. Shankar and M. Sathish	CuO@NiO core-shell nanoparticles decorated anatase TiO ₂ nanospheres for enhanced photocatalytic hydrogen production	International Journal of Hydrogen Energy	2020
11	R. Rameshbabu, M. Sandhiya and M. Sathish	Fe (III) ions grafted bismuth oxychloride nanosheets for enhanced electrochemical supercapacitor application	Journal of Electroanalytical Chemistry	2020
12	S. Natarajan, S. Kaipannan, Y. S. Lee, M. Sathish and V. Aravindan	Sandwich layered Li _{0.32} Al _{0.68} MnO ₂ (OH) ₂ from spent Li-ion battery to build high-performance supercapacitor: Waste to energy storage approach	Journal of Alloys and Compounds	2020
13	S. Suresh Balaji, A. G. Karthick Raj, M. Karnan and M. Sathish	Investigations on the nature of electrolyte on the electrochemical supercapacitor performance of heteroatom doped graphene	Ionics	2020
14	P. Periasamy, T. Krishnakumar, V.P. Devarajan, M. Sandhiya, M. Sathish, M. Chavali,	Investigation of electrochemical supercapacitor performance of WO ₃ -CdS nanocomposites in 1 M H ₂ SO ₄ electrolyte prepared by microwave-assisted method	Materials Letters	2020

15	S. Megala, M. Sathish, S. Harish, M. Navaneethan, S. Sohila, B. Liang, R. Ramesh	Enhancement of photocatalytic H ₂ evolution from water splitting by construction of two dimensional gC ₃ N ₄ /NiAl layered double hydroxides	Applied Surface Science	2020
16	S. Ida, P. Wilson, B. Neppolian, M. Sathish, ARM. Shaheer, P. Ravi	Tuning the type of nitrogen on N-RGO supported on N-TiO ₂ under ultrasonication/hydrothermal treatment for efficient hydrogen evolution-A mechanistic overview	Ultrasonics Sonochemistry	2020
17	K. S. Archana, R. Naresh, E. Harsh, V. Rajendran, A. M. V. Mohan, B. Aiswary, P. P. Ragupathy, D. Dixon,	Effect of positive electrode modification on the performance of zinc-bromine redox flow batteries	Journal of Energy Storage	2020
18	K. S. Archana, S. Suresh, P. Ragupathy, M. Ulaganathan	Investigations on new Fe–Mn redox couple based aqueous redox flow battery	Electrochimica Acta	2020
19	TK Bijoy, P Murugan, Vijay Kumar,	Atomic and electronic structure of solids of Ge ₂ Br ₂ PN, Ge ₂ I ₂ PN, Sn ₂ Cl ₂ PN, Sn ₂ Br ₂ PN and Sn ₂ I ₂ PN inorganic double helices: a first principles study	RSC Advances	2020
20	SR Ede, TK Bijoy, SS Sankar, P Murugan, S Kundu	Rational Design of Highly Efficient Perovskite Hydroxide for Electrocatalytic Water Oxidation	Inorganic Chemistry	2020
21	K Karthick, TK Bijoy, A Sivakumaran, AB MansoorBasha, P Murugan, S Kundu, Inorganic Chemistry	Enhancing Hydrogen Evolution Reaction Activities of 2H-Phase VS ₂ Layers with Palladium Nanoparticles	Inorganic Chemistry	2020
22	JV Rival, Nonappa, ES Shibu	Light-Triggered Reversible Supracolloidal Self-Assembly of Precision Gold Nanoclusters	ACS Applied Materials & Interfaces	2020
23	V. Balasubramanian, S. Kannan, S. T. Nishanthi, G. Sivakumar & K. Mohanraj	Elucidate the pseudocapacitive behaviour of CuWO ₄ electrode synthesized by solid-state reaction,	Journal of Materials Science: Materials in Electronics	2020

24	J.C.Selvakumari, S.T.Nishanthi, J.Dhanalakshmi, M.Ahila, D. P. Padiyan	Synthesis of graphene nanosheets using <i>Camellia sinensis</i> and its electrochemical behavior for energy storage application	Materials Chemistry and Physics	2020
25	N. Angulakshmi, R. B. Dhanalakshmi, M. Kathiresan, Yingke Zhou and A. M. Stephan	The suppression of lithium dendrites by a triazine- Q1 based porous organic polymer-laden PEO-based electrolyte and its application for all-solid-state - lithium batteries	Materials Chemistry Frontiers	2020
26	N. Angulakshmi, R. B. Dhanalakshmi, P. Pólrońniczak, M. Walkowiak, P.Xie, X. Tian, Y. Zhou and A. M. Stephan	An efficient bi-functional permselective separator coated with cubic type- $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ and activated carbon for lithium-sulfur batteries	Sustainable Energy&Fuels	2020
27	N. Angulakshmi, Y. Zhou, S. Suriyakumar, R. B. Dhanalakshmi, M. Satishrajan, S. Alwarappan, Mohamed H. Alkordi, and A. M. Stephan	Microporous Metal–Organic Framework (MOF)-Based Composite Polymer Electrolyte (CPE) Mitigating Lithium Dendrite Formation in All-Solid-State-Lithium Batteries	ACS Omega	2020
28	S. Suriyakumar, G. J.Rani and A. M.Stephan	Fe_3O_4 -seated rGO–sulfur complex as a potential cathode material for lithium–sulfur batteries	Ionics	2020
29	S Arun, C Arul, S Mithin Kumar, U Venkat Kiran, S Mayavan	Study of Molybdenum Disulfide as a Negative Electrode Additive for Stationary Flooded Lead Acid Batteries with Tubular Positive Plates	ChemistrySelect	2020

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1	Deepa Elizabeth Mathew, S. Gopi, M. Kathiresan, S. Thomas, A. Manuel Stephan	Influence of MOF ligands on the electrochemical and interfacial properties of PEO-based electrolytes for all-solid- state lithium batteries.	ElectrochimicaActa	2019
2	H. Haritha, C. Reshma, J. Mary Gladys, S. Shruti, A. Manuel Stephan	Sulfonic groups stemmed ionic shield for polysulfides towards high performance Li-S batteries	ElectrochimicaActa	2019
3	S. Shruti, M. Kathiresan, A. Manuel Stephan	Charge-Discharge and Interfacial Properties of Ionic Liquid -Added Hybrid Electrolytes for Lithium-Sulfur Batteries	ACS Omega	2019
4	S Mithin Kumar, S Arun, SundarMayavan	Effect of carbon nanotubes with varying dimensions and properties on the performance of lead acid batteries operating under high rate partial state of charge conditions.	Journal of Energy Storage.	2019
5	G. Manibalan, G. Murugadoss, R. Thangamuthu, P. Ragupathy, M. Rajesh Kumar, R. Mohan Kumar, RamasamyJayavel	High Electrochemical Performance and Enhanced Electrocatalytic Behavior of a Hydrothermally Synthesized Highly Crystalline Heterostructure CeO ₂ @NiO Nanocomposite	Inorg. Chem	2019
6	AswathyRaghunandanan, PadikassuPeriasamy, P. Ragupathy	Surface-Activated Graphite Paper for High-Performance Lithium-Polysulfide Batteries	ACS Sustainable Chem. Eng,	2019
7	B. Moorthy, S. Kwon, Joo-Hyung Kim, P. Ragupathy	Tin sulfide modified separator as an efficient polysulfide trapper for stable cycling performance in Li-S batteries	Nanoscale Horizon	2019
8	N. Venkatesan, K. S. Archana, S. Suresh, R. Aswathy, M. Ulaganathan, P. Periasamy, P. Ragupathy	Boron-Doped Graphene as Efficient Electrocatalyst for Zinc-Bromine Redox Flow Battery	ChemElectroChem	2019

9	Y. Munaiah D. BabuGorle, M. AnbukulandainathanP.Ragupathy, Vijayamohanank.Pillai,	Solid-state thermal exfoliation of graphite nano-fibers to edge-nitrogenized graphene nanosheets for oxygen reduction reaction	J. Colloid Interface Sci	2019
10	R. Aswathy, S. Suresh, M. Ulaganathan, P. Ragupathy	Polysulfide diffusion controlled, non-shrinkable, porous, PAN/PES electrospun membrane for high energy Li-S battery application	Materials Today Energy	2019
11	Y. Munaiah, S. Boopathi, S. Senthil Kumar, P. Ragupathy	Unveiling the enhanced performance of non-platinum-based hybrid nanocomposites for selective electrocatalytic oxygen reduction	Materials Letters	2019
12	Y. Munaiah, T. N. Narayanan, P. Ragupathy, Vijayamohanank. Pillai,	Electrochemical Exfoliation of Graphite to Fluorographene: An Effect of Degree of Functionalization on $2Br^-/Br_2$ Redox Reaction	Chemistry Select	2019
13	J.CelinaSelvakumari, S.T.Nishanthi, J.Dhanalakshmi, M.Ahila, D. PathinettamPadiyan	Synthesis of graphene nanosheets using Camellia sinensis and its electrochemical behavior for energy storage application	Materials Chemistry and Physics	2019
14	VishwajitM.Gaikwad, Krishna K.Yadav, Sunaina, SuvankarChakraverty, S.E.Lofland, Kandalam V., Ramanujachary, S.T.Nishanthi, Ashok K.Ganguli, MenakaJha,	Design of process for stabilization of La_2NiMnO_6 nanorods and their magnetic properties	Journal of Magnetism and Magnetic Materials	2019
15	Pranjali Yadav, S.T.Nishanthi, BhagyeshPurohit, AsifkhanShanavas, KamalakannanKailasam	Metal-free visible light photocatalytic carbon nitride quantum dots as efficient antibacterial agents: An insight study	Carbon	2019
16	S. T. Nishanthi, Krishna Kumar Yadav, ArabindaBaruah, KalpeshVaghasiya, Rahul Kumar Verma, Ashok K. Ganguli, MenakaJha	Nanostructured silver decorated hollow silica and their application in the treatment of microbial contaminated water at room temperature	New J. Chem.,	2019

17	K.O.Ogunniran, G.Murugadoss, R.Thangamuthu, S.T.Nishanthi,	Nanostructured CeO ₂ /FeO ₃ /Mn-rGO composite as anode material in Li-ion battery	Journal of Alloys and Compounds	2019
18	Ankush, Sujit KumarGuchhait, Sunaina, Suresh BabuG. N., M.Sreekanth, N.Kalaiselvi, Ashok KumarGanguli, MenakaJha	Energy efficient electrodes for lithium-ion batteries: Recovered and processed from spent primary batteries	J. Hazard. Mater.	2019
19	Karthikeyan C,Suresh Babu GN,Maruthamuthu S,Kalaiselvi N	Exploration of biogenic nitrogen doped carbon microspheres derived from resorcinol-formaldehyde as anode for lithium and sodium ion batteries	J. Colloid Interface Sci.	2019
20	Saravanan K, Remith P, Kalaiselvi N	Li–Air: Current Scenario and Its Future	Nanomaterials for electrochemical energy storage	2019
21	Karuppiah, S; Kalimuthu, B; Nazrulla, MA; Krishnamurty, S; Nallathamby, K.	An effective polysulfide trapping polar interlayer for high rate Li-S batteries	J. Mater. Chem. A	2019
22	Suresh, S; Ulaganathan, M; Pitchai, R.	Realizing highly efficient energy retention of Zn-Br ₂ redox flow battery using rGO supported 3D carbon network as a superior electrode,	J. Power Sources	2019
23	Mullaivananathan, V; Kalaiselvi, N	Sb ₂ S ₃ added bio-carbon: Demonstration of potential anode in lithium and sodium-ion batteries	Carbon	2019
24	Ulaganathan, M; Suresh, S; Mariyappan, K; Periasamy, P; Pitchai, R	New Zinc-Vanadium (Zn-V) Hybrid Redox Flow Battery: High-Voltage and Energy-Efficient Advanced Energy Storage System	ACS Sustain. Chem. Eng.	2019
25	Velmurugan, R; Premkumar, J; Pitchai, R; Ulaganathan, M; Subramanian, B	Robust, Flexible, and Binder Free Highly Crystalline V ₂ O ₅ Thin Film Electrodes and Their Superior Supercapacitor Performances,	ACS Sustain. Chem. Eng.	2019

26	Devi, MM; Sunaina; Singh, H; Kaur, K; Gupta, A; Das, A; Nishanthi, ST; Bera, C; Ganguli, AK; Jha, M.	New approach for the transformation of metallic waste into nanostructured Fe ₃ O ₄ and SnO ₂ -Fe ₃ O ₄ heterostructure and their application in treatment of organic pollutant	Waste Manage	2019
27	Nagalakshmi, M; Kalaiselvi, N	Mesoporous dominant cashewnut sheath derived bio-carbon anode for LIBs and SIBs,	Electrochim. Acta	2019
28	Suriyakumar, S; Gopi, S; Kathiresan, M; Bose, S; Gowd, EB; Nair, JR; Angulakshmi, N; Meligrana, G; Bella, F; Gerbaldi, C; Stephan, AM.,	Metal organic framework laden poly(ethylene oxide) based composite electrolytes for all-solid-state Li-S and Li-metal polymer batteries	Electrochim. Acta	2019
29	Nishanthi, ST; Baruah, A; Yadav, KK; Sarker, D; Ghosh, S; Ganguli, AK; Jha, M	New low temperature environmental friendly process for the synthesis of tetragonal MoO ₂ and its field emission properties	Applied surface science	2019
30	Silambarasan, K; Joseph, J; Mayavan, S	Effect of alkali cations on Pt based catalyst towards methanol oxidation reaction in acidic medium	Applied surface science	2019
31	Pongilat, R; Nallathamby, K.,	Size-Dependent Charge Storage Behavior of Mesoporous Hollow Carbon Spheres for High-Performance Li-Se Batteries	J. Phys. Chem. C	2019
32	Kalimuthu, B; Muralidharan, N; Nallathamby, K	Active material infusion strategy dependent electrochemical performance of Se-S mixed cathode in Li-S batteries	Journal of Alloys and compounds	2019
33	Ogunniran, KO; Murugados, G; Thangamuthu, R; Nishanthi, ST	Nanostructured CeO ₂ /FeO ₃ /Mn-rGO composite as anode material in Li-ion battery	Journal of Alloys and compounds	2019

34	Naresh, RP; Mariyappan, K; Archana, KS; Suresh, S; Ditty, D; Ulaganathan, M; Ragupathy, P	Activated Carbon-Anchored 3D Carbon Network for Bromine Activity and its Enhanced Electrochemical Performance in Zn-Br ₂ Hybrid Redox Flow Battery,	ChemElectroChem.	2019
35	Natarajan, S; Ulaganathan, M; Bajaj, HC; Aravindan, V	Transformation of Spent Li-Ion Battery in to High Energy Supercapacitors in Asymmetric Configuration,	ChemElectroChem.	2019
36	Elizabeth, I; Singh, BP; Gopukumar, S.	Electrochemical performance of Sb ₂ S ₃ /CNT free-standing flexible anode for Li-ion batteries	J. Mater. Sci.,	2019
37	Periasamy, P; Krishnakumar, T; Sandhiya, M; Sathish, M; Chavali, M; Siril, PF; Devarajan, VP.	Preparation and comparison of hybridized WO ₃ -V ₂ O ₅ nanocomposites electrochemical supercapacitor performance in KOH and H ₂ SO ₄ electrolyte	Materials letters	2019
38	Sanmugam, A; Jeyaraman, AR; Venkatesan, S; Paramasivam, M; Kim, HS; Vikraman, D., A	One-pot chemical route to prepare poly 4, 4'-diaminodiphenyl sulfone-zirconium dioxide/cerium dioxide hybrid nanocomposites for improved capacitance properties,	Materials letters	2019
39	Dixon, D; Avila, M; Ehrenberg, H; Bhaskar, A	Difference in Electrochemical Mechanism of SnO ₂ Conversion in Lithium-Ion and Sodium-Ion Batteries: Combined in Operando and Ex Situ XAS Investigations	ACS Omega	2019
40	Kalaiappan, K; Marimuthu, S; Rengapillai, S; Murugan, R; Premkumar, T., Kombucha	Scoby-based carbon as a green scaffold for high-capacity cathode in lithium-sulfur batteries	Ionics	2019

41	Natarajan, A; Murugavel, K; Madasamy, K; Suriyakumar, S; Illayaraja, N; Anupriya, N; Christy, M; Nahm, KS; Zhou, YK; Stephan, AM.	Charge-discharge behavior of Li-O-2 cell with viologen as redox catalyst: influence of cationic charge	Ionics	2019
42	Dixon, D; Babu, DJ; Bhaskar, A; Bruns, HM; Schneider, JJ; Scheiba, F; Ehrenberg, H.	Tuning the performance of vanadium redox flow batteries by modifying the structural defects of the carbon felt electrode	Beilstein J. Nanotechnol.	2019
43	Periasamy, P; Krishnakumar, T; Sandhiya, M; Sathish, M; Chavali, M; Siril, PF; Devarajan, VP.	Electrochemical investigation of hybridized WO ₃ -CdS semiconducting nanostructures prepared by microwave-assisted wet chemical route for supercapacitor application	J. Mater. Sci.-Mater. Electron.	2019
44	Packiyalakshmi, P; Chandrasekhar, B; Kalaiselvi, N	Domestic Food Waste Derived Porous Carbon for Energy Storage Applications,	Chemistry Select	2019
45	Selvakumar, K; Ulaganathan, M; Kumar, SMS; Thangamuthu, R; Periasamy, P; Ragupathy, P.	Electrospun Carbon Nanofiber Sprinkled with Co ₃ O ₄ as an Efficient Electrocatalyst for Oxygen Reduction Reaction in Alkaline Medium	Chemistry Select	2019
46	Rajaram, R; Karuppasamy, D; Ragupathy, P; Mathiyarasu, J.	Understanding the role of glucose oxidase on carbon felt as electrodes in biocapacitor studies	Bull. Mat. Sci.,	2019