



Name : Dr Satya Sai srikant

Designation : Professor

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Educational Qualification

Degree	Institution	Specialization	Year of Passing
PhD	Siksha 'O; Anusandhan University, Bhubaneswar	Microwave Energy	2014
M Tech	University of Delhi	Microwave Electronics	2002
B Tech	Institution of Electronics and Telecommunication Engineers	Electronics and Communication Engineering	1997

Research Area

Antenna, Wireless Sensor Network; E-waste, Filters, Monolithic Microwave Integrated Circuits, Microwave Integrated Circuits, Electromagnetics, Microwave Amplifiers and Oscillators

Details of Publications

SCIE Journals: 21

Scopus Journals: 9

International / National Conference Paper: 16

Grant Patents: 3

Published Patents: 2

Books: 1

Book Chapters: 3

Achievements

No. of Research Scholars

A) PhD Scholars Guided : 3 + 1 (Thesis Submitted)

B) Guiding PhD Scholars: 7

Workshops/Seminars/FDPs

FDPs attended: 16

Workshop attended: 3

International Conferences attended: 10

Seminar/ webinar attended: 10

Awards

Sr. No	Name of Award	Awarded by	Year of Award
1	Institutional Award	Institution of Engineers (India)	2024
2	Institutional Award	Institution of Engineers (India)	2021
3	Institutional Award	Institution of Engineers (India)	2020
4	Bipin Behari Mohanty Memorial Award	Institution of Engineers (India),	2018
5	Madhusudan Memorial Award	Institution of Engineers (India),	2016
6	Institutional Award	Institution of Engineers India	2015
7	Sadananda Memorial Award	Institution of Engineers	2014
8	Institutional Award	Institution of Engineers	2012

Work Experience: Total 21 Years and 10 months

- i. More than 15 Years and 3 month in Teaching and Research work
- ii. 6 Year 7 months in Research Organization

Memberships

- b. Membership of Senior IEEE Member (98609479)
- c. Life Membership of Indian Science Congress (L22682)
- d. Life Member of IETE as Fellow member (F087736)
- e. Life Member of Institution of Engineer (India) M-1480744
- f. Life Member of ISTE (LM – 135448)
- g. Life Member of IAENG (139042)

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LIST OF PUBLICATIONS

(i) International / National Journals

Authors	Title of the Paper	Details of the Publications
Satya Sai Srikant, Raghupatruni Bhima Rao	Judicious combinations of gravity, magnetic, electrostatic separators and Microwave Heat Energy on recovery of Ilmenite from Humma Lean Grade Beach Placer Deposit	Jr of Microwave Power and Electromagnetic Energy, (Taylor and Francis Jr); vol 58 (4); Oct 2024; Pages 342-357 [SCIE]; IF=0.9]
Shikha, Saptarshi Gupta, Satya Sai Srikant, Parvin Kumar	An investigation of radio over fiber link in terms of Q-Factor for the used photonic modulator over dispersive medium	Journal Optics; ONLINE in Oct 2024 [SCIE]; IF=1.6] https://link.springer.com/article/10.1007/s12596-024-02234-w
Raghupatruni Bhima Rao, Tummala Laxmi, Satya Sai Srikant	Novel method on determination of Bond work index for red sediment placer ilmenite concentrate	World of Mining – Surface & Underground; 76 (2) Sept 2024 [Scopus , SNIP = 0.025]
Raghupatruni Bhima Rao, Sunita Routray, Ranjita Swain, Satya Sai Srikant	Preliminary Studies on Recovery of Placer Chromite from Central West Coast of India.	(Springer)Journal of The Institution of Engineers (India): Series D, Sept 2024, pp 1-7 [Scopus , SNIP = 0.586] doi.org/10.1007/s40033-024-00800-x
Vivek Verma, Satya Sai Srikant	Increasing prediction accuracy of univariate solar forecasting using Holt-Winter method with damped additive trend and seasonality	Semiconductor Optoelectronics , Vol 43 (1), 322-333, July 2024; Scopus, SNIP = 0.235
Deependra Singh, Bignaraj Mishra, Bhima Rao Raghupatruni, Satya Sai Srikant *	A green approach for synthesizing high pure gadolinium zirconate nanoparticles using microwave energy	Jr of Microwave Power and Electromagnetic Energy, (Taylor and Francis Jr); April 2024, [SCI and Scopus Jr] Vol 58(2), 128–139. https://doi.org/10.1080/08327823.2024.2341341
Shipra Srivastava, Saptarshi Gupta, Vibhav Kumar Sachan, Gaurav Saxena, Satya Sai Srikant*	High gain circularly polarized graphene inspired dielectric resonator antenna for 6G IOT THz optical communication and optical refractive index Biosensing applications	Engineering Science and Technology, an International Journal (Elsevier Jr), Vol 49, pp 101603 -101612, Jan 2024, SCIE; IF= 5.7 Q1
Vivek Verma, Satya Sai Srikant	Duty cycle maximization of energy harvested wireless sensor network (EHWSN) for mission critical applications using forecasted	China Petroleum Processing and Petrochemical Technology, Vol 23(2), Dec 2023, pp 4107-4118; SCIE; IF= 0.853
Shipra Srivastava, Saptarshi Gupta, Vibhav Kumar Sachan, , Satya Sai Srikant*	Diagonally Symmetric Slotted Microstrip Patch Antenna with Circular Polarization for UHF Trans-Receiver and RFID System	Journal of Technology, Vol 38, No 4, Dec 2023, pp 267-274, Scopus, SNIP = 0.220
Satya Sai Srikant, Raghupatruni Bhima Rao	Preparation of High Purity Graphite using Comminution, Pressure Leaching and Flotation	Journal of Mining and Environment, Vol 14, Issue 4 , October 2023, , Pages 1205-1218, (Scopus); SNIP = 0.405
Shipra Srivastava, Saptarshi Gupta, Vibhav Kumar Sachan, , Satya Sai Srikant*	Design of Circularly Polarized Microstrip Antenna with slotted Splitting ring array for Video Surveillance Applications at C-Band	International Journal of Membrane Science and Technology, Vol. 9, No. 2, pp 69-78, Dec 2022, (Scopus)
Vivek Verma, Satya Sai Srikant	Facebook Prophet Library Prediction-Based Energy Harvested MAC Protocol (FPEH-MAC)	International Journal of Membrane Science and Technology, Vol. 9, No. 2, pp 79-89, Dec 2022, (Scopus)
Vivek Verma, Satya Sai Srikant	Hamper filter based Short term Solar Forecasting using Facebook Prophet Library in Energy Harvested Wireless Sensor Network (EHWSN)	IEEE Transactions on Smart Processing and Computing, 11 (5) 368-375, Oct 2022 (Scopus)
Manoj Kumar Vishnoi, Satya Sai Srikant *	Designing of 8-Gate Fingered GaN HEMT based frequency mixer with enhanced gain for wide band communication systems	Journal of Scientific and Industrial Research (JSIR), 81, 821-826, 2022 [SCI Jr]
Satya Sai Srikant, Sachi Pandey, Rajendra Prasad Mahapatra, Vikas	Comminution Characters of Fault Zone Rocks and Secure Outcomes in the	Journal of Scientific and Industrial Research (JSIR), 81, 767-775, 2022 [SCI Jr]

Chouhan & R B Rao	Blockchain Record-Keeping System for Industrial Applications	
Satya Sai Srikant, R Bhima Rao	Microwave heat treatment on kyanite for mullite formation and the preparation of zirconia toughened mullite	Journal of Microwave Power and Electromagnetic Energy, [SCI and Scopus Jr] https://doi.org/10.1080/08327823.2022.2029119
Satya Sai Srikant, Rajendra Prasad Mahapatra, R Bhima Rao	Dry Beneficiation of Coking Coal Fines using an Advanced Air Cyclone	Journal of Scientific and Industrial Research (JSIR), Vol. 80, September 2021, pp. 785-789 [SCI Jr]
Manoj Kumar Vishnoi, Satya Sai Srikant, Rajendra Prasad Mahapatra, Shikha Sharma	A variable gain reconfigurable mixer using gallium nitride high-electron-mobility transistor for wireless local area network applications	International Journal of Communication System (Wiley Publication), Vol 34 (17) DOI: https://doi.org/10.1002/dac.4971 Pg 1-13, [SCI Jr]
Satya Sai Srikant, Rajendra Prasad Mahapatra, R Bhima Rao,	Extraction of nano-metals with judicious combination of microwave heating and acid leaching process from E-waste	Journal of Microwave Power and Electromagnetic Energy, [SCI and Scopus Jr] https://doi.org/10.1080/08327823.2021.1952833
Rajendra Prasad Mahapatra, Satya Sai Srikant, Sachi Pandey, Vikas Chouhan, Raghupatruni Bhima Rao,	Trusted and transparent Blockchain-enabled E-waste optimization to recover precious metals with Microwave heating	Journal of Scientific and Industrial Research (JSIR), Vol. 80, July 2021, pp. 623-629 [SCI Jr]
Satya Sai Srikant, Rajendra Prasad Mahapatra, R Bhima Rao	Dry beneficiation of coking coal fines using an advanced air cyclone	Journal of Scientific and Industrial Research (JSIR), Vol. 80, September 2021, pp. 785-789 [SCI Jr]
Satya Sai Srikant, and Raghupatruni Bhima Rao	Preparation of alternative raw materials for resource development to use in Indian Ferro alloy and steel industrial applications	Indian Journal of Engineering and Materials Sciences, Vol. 27, pp 990-995, October 2020 [SCI Jr]
Asnani Chandu Kumar, Raghupatruni Bhima Rao, Satya Sai Srikant, Naryan Mandre	Optimization for single and double electrodes high tension electrostatic separators using surface response methodology to recover placer titanium minerals from red sediments of badlands topography, Odisha, India	Current Science, Vol. 119, NO. 4, pp 693-695, Aug 2020 [SCI Jr]
Asnani Chandu Kumar, Raghupatruni Bhima Rao, Satya Sai Srikant, Naryan Mandre	Recovery of monazite from red sediments of badlands topography of southeast coast of India and its characterization for industrial applications	Indian Journal of Geo-Marine Sciences; Vol. 49 (09), pp. 1528-1535, Sept 2020, [SCI Jr]
Rajendra Prasad Mahapatra, Satya Sai Srikant, R Bhima Rao, Bijayananda Mohanty	Recovery of basic valuable metals and alloys from E-waste using microwave heating followed by leaching and cementation process	Sadhana Journal, 44, (209 -1 to 209-10), sep 2019, [Springer and SCI Jr]
Bignaraj Mishra, Satya Sai Srikant, Sunita Routray, Tumula Laxmi and Raghupatruni Bhima Rao	Preparation of nano materials from strategic placer heavy minerals recovered from red sediments of badlands topography of South East Coast of India	Current Science, 116 / 08, 2019, pp 1363-1372 [SCI Jr]
Rajendra Prasad Mahapatra, Satya Sai Srikant, R Bhima Rao, Bijayananda Mohanty	A novel method using judicious combinations of microwave heating and acid leaching processes on recovery of gold and other precious metals from e-waste	Current Science, Vol 116, 2019, pg 463-468, [SCI Jr],
Rajendra Prasad Mahapatra, Satya Sai Srikant, Bijayananda Mohanty, Rudra Sankar Dhar	E-Waste in India- Problems and Innovative Solutions	Recent Trends in Engineering and Applied Mathematics; International Journal of Pure and Applied Mathematics. Vol 118 (22), 2018, 1699-1704 [Scopus Jr]
V. Jagadeswari, Sunita Routray, T. Laxmi, S S Srikant and R. Bhima Rao	Indian Black Placer Sand of SE Coast of India: A Potential Resource for Production of Titanium Dioxide Plant at Bramhagiri, Puri Dist., Odisha	The Institution of Engineers (India): Odisha State Journal, Jan 2018, 1/1/121-127 [Scopus Jr]
Satya Sai Srikant and R. Bhima Rao	Microwave heat treatment on red sediment sillimanite-zircon-alumina	Journal of Microwave Power and Electromagnetic Energy (Taylor & Francis

	composites for fused zirconia–mullite products	Journal), 2016, Vol 50(3), pg 182-190 [SCI and Scopus Jr]
Satya Sai Srikant and Rajendra Prasad Mahapatra	Microwave heat transfer mechanism and absorption on selected valuable minerals and materials	The Institution of Engineers (India): Odisha State Journal, Feb 2016, 1/1/94-98[Scopus Jr]
Satya Sai Srikant , Rajendra Prasad Mahapatra, T Laxmi	Microwave Energy for Waste Used Engine Oil (Received Institutional Gold Medal Award-2015)	The Institution of Engineers (India): Odisha State Journal, 2015, Vol 1, pp 255-261[Scopus Jr]
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	Morphological characterization of Titania slag obtained from Red Sediment Placer Ilmenite using Microwave Energy	Journal of The Institution of Engineers (India): Series D, June 2015, Vol 96(1), pp 43-49 [Scopus Jr]
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	Applications of microwave oven and microwave furnace heat resources on phase transformation: A research study on red sediment placer ilmenite	Iranian Journal of Science and Technology , Vol 38 (3), Sept 2014, pp 253-256 [SCI and Scopus Jr]
Satya Sai Srikant , K Jayasankar, P S Mukherjee, and R. Bhima Rao	Effect of microwave heat treatment on grindability of zircon in a planetary ball mill	Aufbereitungs-Technik/Mineral Processing [A German International Jr] , Vol 54, 12 /2013, pp 55-63 [Scopus Jr]
T Laxmi, Satya Sai Srikant , D S Rao and R Bhima Rao	Beneficiation studies on recovery & in-depth characterization of ilmenite from red sediments of badlands topography of Ganjam Dist., Odisha, India	International Journal of Mining Science and Technology, Vol 11, Issue 3, 2013, pp 725-731. [SCI Jr]
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	Effect of heat treatment in microwave furnace for placer ilmenite	Int Jr of Applied Science and Engineering , Vol 11(3), 2013, pp 245-250 [Scopus Jr and Scimago]

(ii) Conferences

V. K. Verma, H. Kaushik, S. S. Srikant , H. Gupta, A. Gupta and G. Singh	Increasing Prediction Accuracy using Pca Regression Technique in EHWSN	4th International Conference on Advance Computing and Innovative Technologies in Engineering (IEEE- ICACITE) 2024
R. Verma, S. S. Sai and A. K. Sharma	Circularly Polarized Wideband Aperture Antenna for Wireless Communication	14 th IEEE International Conference on Computing Communication and Networking Technologies (ICCCNT), Delhi, India, 2023, pp. 1-4, doi: 10.1109/ICCCNT56998.2023.10307729
Sanju, Kusum Lata Agarwal, and Satya Sai Srikant	An Analysis of State of Art Maximum Power Point Tracking Techniques of the Solar Photovoltaic System Under Partial Shading Conditions	2022 IEEE 10th Power India International Conference (PIICON), New Delhi, India, pp. 1-6, doi: 10.1109/PIICON56320.2022.10045187.
Sanju, Kusum Lata Agarwal, and Satya Sai Srikant	An Analysis of State of Art Techniques for Solar PV Powered Water Pumping System	2022 IEEE 10th Power India International Conference (PIICON), New Delhi, India, pp. 1-6, doi: 10.1109/PIICON56320.2022.10045189.
Shipra Srivastava, Vibhav Kumar Sachan, Saptarshi Gupta, Satya Sai Srikant	Circularly Polarized Microstrip Rectangular Antenna for Wireless Communication Applications at C Band	Proceedings of IRF International Conference; 13 th April 2023; pg 32-35
Shipra Srivastava, Vibhav Kumar Sachan, Saptarshi Gupta, Satya Sai Srikant	Design of Diagonally Slotted Microstrip Antenna for Wireless Applications	Proceedings of ISETE International Conference, New Delhi, India, 16 th October 2022; pg 34-36
Manoj Vishnoi and Satya Sai Srikant	Design of GaN HEMT Based Down-Convertor Passive Mixer from S Band to X Band	Proceedings of International Conference on Recent Trends in Computing IRCTC 2021, (Springer) pg 781-785; https://doi.org/10.1007/978-981-16-7118-0_66
Manoj Vishnoi and Satya Sai Srikant	A Gain Reconfigurable Mixer using GaN HEMT for WLAN Applications	1 st International Conference on Renewable Energy and Green Technology (ICREGT–2020), pg 32-36
Rajendra Prasad Mahapatra, Satya Sai Srikant , R Bhima Rao, Bijayananda Mohanty	Less Polluted Flue Gases Obtained with Green Technology During Precious Metals Recovery from Unwanted and Discarded Electrical and Electronics Components	Fifth International Conference on Intelligent Computing and Applications (ICICA 2019), Springer , pg 715-720
Satya Sai Srikant , and R. Bhima Rao	Effect of Microwave Energy on Upgradation of Titania from Titania Slag	Institution of Engineers; 31 st National Convention of Chemical Engineers, 12-13 Sept 2015, pp. 94-98
Satya Sai Srikant , P S Mukherjee,	Microwave Energy for Drying the Coal	National Conference on Science for Shaping the

and R. Bhima Rao		Future of India-16 th Odisha Bigyan Congress, Nov 2013, pp 182-183.
Satya Sai Srikant	Preliminary Investigation on Effective Grounding Measurement of Microstrip Line	International Conference on Communication Systems, BKBIET, Pilani, pp 45, 2013
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	The Review of Microwave Energy to Ilmenite	National Conf on Recent Trends in Information and Communication Technology 2013, SRM University, pp 133-135
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	Value addition to red sediment placer ilmenite using microwave energy and infor depth structural and morphological characterization of titania slag.	National Conference on Emerging Technologies for Processing and Utilization of Beach Sand Minerals, Cochin, 01- 02 March 2013, pp 40
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	Applications of microwave oven and microwave furnace heat resources on phase transformation: A case study on red sediment placer ilmenite	National Conference on Recent Trends in Information and Communication Technology-2012, SRM University, 2012, pp 19.
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	Microwave heat energy in mineral and metallurgical industries	National Conference on Science for Shaping the Future of India'-15 th Odisha Bigyan Congress , Oct 2012
Satya Sai Srikant and Rajendra Prasad Mahapatra	Semiconductor Die: Processing and Packaging	IEEE IntConference on Network Communication and Computer- 2011, April 2011, pp 10 – 13
Jose Luis Martineez Flores, Satya Sai Srikant , Bimal Sareen, Abhijit Vagga	Performance of RFID tags in near and far field	IEEE Int Conference for Personal wireless communication, 2005, pp 353- 357

iii) Proceedings

Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	Eco-friendly microwave heat treatment on red sediment placer for ceramic industries (Received Sadananda IE Gold Medal Award-2014)	Institution of Engineers; 55 th Technical Annual Proceeding, 2014, pp. 159-164
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	Microwave energy for waste management	Mineral Processing Technology -2013, vol 3, pp 948-953
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	Microwave energy – A clean and eco-friendly technology for preparation of value added products from red sediment heavy minerals	Clean Mining Technology, MineTECH - 2013, pp. 102-106.
G V Krishna, A Mohana Rao, T Laxmi, S S Srikant , R Bhima Rao	Recovery of Ilmenite from red sediments of badlands topography for applications in steel industries	6 th Indian Steel Summit – Raw Materials & Technology, August 2012, pp. 1-7.
Satya Sai Srikant , K Jayasankar, P S Mukherjee, and R. Bhima Rao	Effect of microwave heat treatment on grindability of zircon	Institution of Engineers; 53 rd Technical Annual Proceeding, 2012, pp. 184-193
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	Microwave reduction of placer ilmenite concentrate	Mineral Processing Technology -2011