



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

Details of Publications

SCIE Journals: 18

Scopus Journals: 5

International / National Conference Paper: 16

Grant Patents: 3

Published Patents: 2

Books: 1

Book Chapters: 3

Awards

Sr. No	Name of Award	Awarded by	Year of Award
1	Institutional Award	Institution of Engineers (India),	2021
2	Institutional Award	Institution of Engineers (India),	2020
3	Bipin Behari Mohanty Memorial Award	Institution of Engineers (India),	2018
4	Madhusudan Memorial Award	Institution of Engineers (India),	2022
5	Institutional Award	Institution of Engineers (India),	2015

6	Sadananda Memorial Award	Institution of Engineers (India),	2014
7	Institutional Award	Institution of Engineers (India),	2012

Achievements

No. of Research Scholars guided

- A) Successfully guided in PhD: 2
- B) Guiding PhD Scholars: 7

Workshops/Seminars/FDPs

FDPs attended: 15

Workshop attended: 3

International Conferences attended: 10

Seminar/ webinar attended: 10

Work Experience: Total 20 Years and 6 months

- i. 13Years 11 months 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

Vivek Verma, Satya Sai Srikant	Hample filter based Short term Solar Forecasting using Facebook Prophet Library in Energy Harvested Wireless Sensor Network (EHWSN)	IEIE Transactions on Smart Processing and Computing, 11 (5) 368-375, Oct 2022 (Scopus)
Manoj Kumar Vishnoi, Satya Sai Srikant *	Designing of 8-Gate Fingereed 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 Chouhan & R B Rao	Comminution Characters of Fault Zone Rocks and Secure Outcomes in the Blockchain Record-Keeping System for Industrial Applications	Journal of Scientific and Industrial Research (JSIR), 81, 767-775, 2022 [SCI Jr]
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 Published (20-1-2022)
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, Published in Sep 2021 [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 Published (16-7-2021)
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]
Ankit Kumar Chaubey, Amit, Satya Sai Srikant ,	Design and Analysis of Wideband Antenna for Biomedical Purposes	Internet of Things and Big Data Applications [Springer Book Chapter], pp 151-159, Feb 2020

Asnani Chandu Kumar , Raghupatruni Bhima Rao , Satya Sai Srikant , NaryanMandre	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 ,NaryanMandre	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, BijayanandaMohanty	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 ,SunitaRoutray, TumulaLaxmi 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, BijayanandaMohanty	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 116/04, 2019, pg 463-468, [SCI Jr],
Rajendra Prasad Mahapatra, Satya Sai Srikant ,BijayanandaMohanty RudraSankarDhar	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, SunitaRoutray, 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 composites for fused zirconia–mullite products	Journal of Microwave Power and Electromagnetic Energy (Taylor & Francis 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	An Overview on Monolithic	Turkish Journal of Engineering, Science and

	Microwave Integrated Circuits	Technology, 2014, Vol 2(3), pp 123-126
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	An investigation on Titania formation with Microwave Heat Treatment from Red sediment placer Ilmenite	Turkish Journal of Engineering, Science and Technology, 2014, Vol 2, pp 83-89
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 , P S Mukherjee, and R. Bhima Rao	Applications of microwave heat energy red sediment placer Sillimanite Mineral	Mining Engineering Journal, Vol 16 (2), Sept 2014, pp 13-16
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	Effect of Microwave Heat Treatment for Zircon Placer Mineral	Turkish Journal of Engineering, Science and Technology, 2014, Vol 1, pp 8-11
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]
Satya Sai Srikant	Preliminary Investigation on Effective Grounding Measurement of Microstrip Line	Int Jr of Electronics and Communication Engineering & Technology, Vol 4 (7), (2013), pp 45- 48
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. [Elsevier and Scopus 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]
Satya Sai Srikant , S K Singh, P S Mukherjee, and R. Bhima Rao	Value addition to red sediment placer sillimanite using microwave energy and in depth structural and morphological characterization of mullite	Journal of Minerals and Materials Characterization and Engineering, Vol 11, No.11, Nov 2012, pp 1055-1062
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	Applications of response surface methodology on mullite formation from red sediment placer sillimanite using microwave energy	Multi Disciplinary Edu Global Quest Vol 1, No.4, Oct 2012, pp 104-117, [UGC Journal]
Satya Sai Srikant , P S Mukherjee, and R. Bhima Rao	Preliminary investigations on mullite formation using microwave sintering furnace: A case study on placer sillimanite	World Ceramic Refractories Jr WCR 2012, 4/12, pp. 6-8

(ii) Conferences

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, and R. Bhima Rao	Microwave Energy for Drying the Coal	National Conference on Science for Shaping the 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, pg 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 in 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,	Microwave heat energy in mineral and	National Conference on Science for Shaping the Future of India'-15 th Odisha

and R. Bhima Rao	metallurgical industries	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 , BimalSareen, AbhijitVagga	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.(Received Institutional Gold Medal Award-2012)	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