

Bio-sketch of Dr. L. Rama Krishna, Scientist-'F', ARCI

Dr. L. Rama Krishna is working as Scientist 'F', Centre for Engineered Coatings, International Advanced Research Centre (ARCI), Ministry of Science & Technology, Govt. of India, located at Balapur, Hyderabad. Obtained B.Tech, from NIT-Warangal (formerly known as REC-Warangal), M.Tech from IIT-Kanpur, and Ph.D. from JNTU, Hyderabad. All the academic degrees are from Materials & Metallurgical Engineering discipline.



His professional expertise includes Conceptualization of novel and industrially relevant technologies, Design and Development lab scale and industry scale technological systems, Application Development & Technology Transfer. In addition, evaluation of Mechanical, Tribological and Corrosion behavior of diverse thick coatings and thin films also had been his immense interest.

Dr. L. Rama Krishna's outstanding scientific contribution led to receive numerous National and International awards & recognitions such as:

- ✓ **Member**, Defense & Aerospace Panel of Confederation of Indian Industry (CII), Hyderabad Chapter, August 2019.
- ✓ **Invited theme speaker**, National Frontiers of Engineering, Indian National Academy of Engineering, IIT Bhubaneswar, May-June 2019.
- ✓ **Fellow of Institution of Engineers (India)**, FIE, July 2018.
- ✓ **EDITOR**: Transactions of Indian Institute of Metals, Springer – 2017 onwards, Journal of Materials Science and Surface Engineering (JMSSE) – 2015 onwards, Journal of Thermal Spray and Engineering (JTSE) – 2017 onwards.
- ✓ **SECTION EDITOR**: "Ceramic Coatings and their Properties for Critical Applications" in "Handbook of Advanced Ceramics and Composites Applications", Springer Nature, 2018.

- ✓ **BOARD OF STUDIES (BoS) MEMBER:** Amritha School of Engineering, Amritha Vishwa Vidyapeetham, Coimbatore, Rajiv Gandhi University of Knowledge & Technology (RGUKT) – Nuzvid, PVP Siddhartha Institute of Technology, Vijayawada.
- ✓ **DISTINGUISHED ALUMNI PROFESSIONAL ACHIEVEMENT AWARD,** National Institute of Technology, Warangal, 2016.

- ✓ **CERTIFICATE OF OUTSTANDING CONTRIBUTION IN REVIEWING:** Received from various journals namely Materials and Design, Alloys and Compounds and Surface and Coatings Technology - Elsevier, Amsterdam, The Netherlands, 2015.



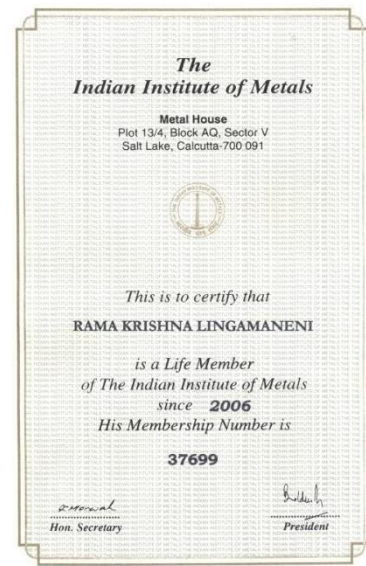
- ✓ **EXECUTIVE COUNCIL MEMBER,** Materials Research Society of India, Hyderabad Chapter, 2014 onwards.
- ✓ **CONVENOR,** Thermal Spray Coating Technologies (TSCOAT-2015), organized in association with Materials Research Society of India, 23 Sept. 2015.
- ✓ **EXECUTIVE ORGANIZING COMMITTEE MEMBER:** Asian Thermal Spray Conference (ATSC) - 5-day international conference organized at Hotel Novotel, Hyderabad, Nov. 2014.

- ✓ Invited participant in Indo-US flagship "FRONTIERS OF ENGINEERS SYMPOSIUM", Washington DC, U.S.A., 2012.

- ✓ **CONVENOR:** INAE Annual Convention; coordinated with DMRL, RCI, DRDO and CSIR, INAE-New Delhi, December 2011.



- ✓ **ORGANIZING COMMITTEE MEMBER:** Two-day workshop conducted with McGill University, Canada and Boeing, USA to utilize ARCI technologies to space applications, 2011.
- ✓ **CONVENOR:** Surface Engineering: Technologies, Research and Applications (SETRA) – A 5-day course (27-31 August 2012), organized at ARCI. Transferred about Rs. 7.0 lakhs surplus funds to Prof. T.R. Ananthraman Education & Research Foundation for supporting the meritorious students pursuing materials science & metallurgical engineering career.
- ✓ **SILVER MEDAL,** International Conference on Metallurgical Coatings and Thin Films (ICMCTF), San Diego, USA, 2009.
- ✓ **RESEARCH FACULTY** – Materials Science & Engineering, Northwestern University, Illinois (Chicago), USA, 2008 - 2009.
- ✓ **INTERNATIONAL SCIENTIST OF THE YEAR 2008,** International Biographic Centre, Cambridge UK
- ✓ **BOYSCAST FELLOW** – Department of Science & Technology, Government of India, 2007, Award carries US\$ 30,000 fellowship grant.
- ✓ Biographic Details were published in **"WHO IS WHO IN ASIA"** in 2007, **"WHO IS WHO IN THE WORLD"** in 2008, Marquis Publication Board, Pennsylvania, USA.
- ✓ **LIFE MEMBER,** Indian Institute of Metals, Calcutta, 2005
- ✓ **EXECUTIVE COUNCIL MEMBER,** Hyderabad Chapter of Indian Institute of Metals, Calcutta, 2005- 2007
- ✓ **YOUNG ENGINEER AWARD,** Indian National Academy of Engineering (INAE), 2005 (US\$ 2,700 cash prize, citation and a gold medal).
- ✓ **THOMSON'S HIGHLY CITED AWARD,** Thomson's Web of Science, Singapore, 2005.



- ✓ **ORGANIZING COUNCIL MEMBER**, International Conference on Advanced Surface Treatments: Research and Applications (ASTRA), Hyderabad, 3-6 Nov. 2003.
- ✓ **BEST PAPER AWARD**, 1st Prize, NMD-ATM, Indian Institute of Metals, Bhilai, 2000.
- ✓ **"PRESIDENT GOLD MEDAL"** – M. Tech thesis nominated, 1999, IIT-K.
- ✓ **BEST ACADEMIC PERFORMANCE AWARD**, REC-Warangal, 1997

LIST OF PATENTS:

- ✓ **L. Rama Krishna**, D. Srinivasa Rao, S.V. Joshi and G. Sundararjan, Process and apparatus for protection of Structural Members from Wear, Corrosion and Fatigue Damage – *Indian Patent Application No. 1839/DEL/2015, June 2015.*
- ✓ **L. Rama Krishna**, A.V. Rybalco, G. Sundararajan, Micro Arc Oxidation Process for forming ceramic coatings on metallic bodies and an apparatus for carrying out the process, *US Patent No: 6,893,551, Indian Patent No: 209817.*
- ✓ **L. Rama Krishna**, Nitin P. Wasekar, G. Sundararajan, "A Process for Continuous Coating Deposition and an Apparatus for Carrying out the Process" Indian Patent No: 1828/DEL/2008/01082008, UK Patent No: GB 2464378, US Patent No: US 8,486,237, Japan Patent No: 5442386, German Patent No: 10 2009 044 256, French Patent Application No:0957102, Brazil Patent No: PI0904232-6 A2 and South Africa Patent No: ZA200906786 to cater the commercialization opportunities.

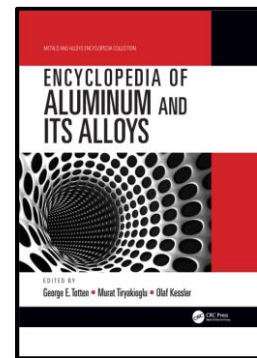


- ✓ **L. Rama Krishna**, Nitin P. Wasekar, G. Sundararajan, "A Process for Continuous Coating Deposition and an Apparatus for Carrying out the Process", US Patent No: 9,365,945

INVITED BOOK CHAPTERS:

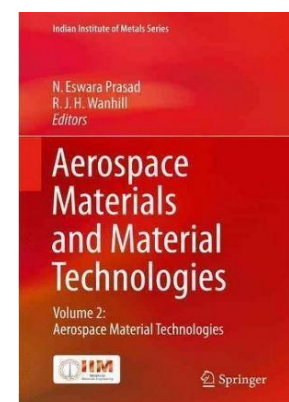
- ✓ **L. Rama Krishna**, P.S. Babu, Manish Tak, D.S. Rao, G. Padmanabham, G. Sundararajan, Processing of ceramic and cermet composite coatings for strategic and aerospace applications, in Handbook of Advanced Ceramics and Composites Applications, Ed: Yashwant R Mahajan and Roy Johnson, Springer Nature. (In press)

- ✓ **L. Rama Krishna** and G. Sundararajan, Wear and Corrosion Protection of Aluminum and Its Alloys Through Micro Arc Oxidation Coatings, in "*Encyclopedia of Aluminum and Its Alloys*", Ed: George E. Totten, Olaf Kessler, Murat Tiryakioglu, Pubs: Taylor & Francis, 2018, pp: 386-399, ISBN-13:978-1466510807, ISBN-10: 1466510803.



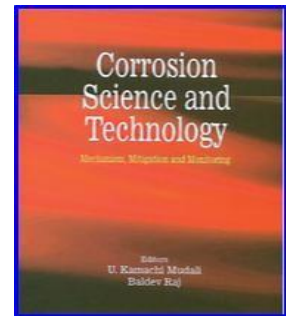
- ✓ P.S. Babu, **L. Rama Krishna** and D.S. Rao, Thermal Spray Coatings for Protecting Al alloys, in "*Encyclopedia of Aluminum and Its Alloys*", Ed: George E. Totten, Olaf Kessler, Murat Tiryakioglu, Pubs: Taylor & Francis, 2018, pp: 2680-2695, ISBN-13:978-1466510807, ISBN-10: 1466510803.

- ✓ D.S. Rao, **L. Rama Krishna** and G. Sundararajan, Detonation Sprayed Coatings for Aerospace Applications, in "*Aerospace Materials and Material Technologies*", Ed: N.E. Prasad, R.J.H. Wanhill, Pubs: Indian Institute of Metals Series, Springer Science + Business Media, Singapore, 2017, pp: 483-500, ISBN: 978-981-10-2143-5, Article DOI: 10.1007/978-981-10-2134-3_22.

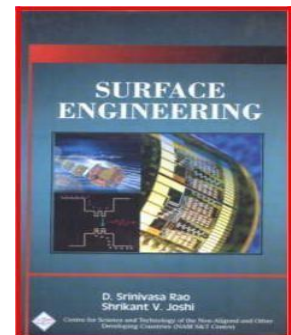


- ✓ G. Sundararajan, **L. Rama Krishna**, N.P. Wasekar, G. Sivakumar and A. Jyothirmayi, *Coatings for Corrosion*

Resistance in "Corrosion Science and Technology: Mechanisms, Mitigation and Monitoring", Pubs: Taylor & Francis, UK, Nov/Dec 2008 pp: 243-283, ISBN-13:978-0849333743, ISBN-10:0849333741.



- ✓ **L. Rama Krishna**, *Micro Arc Oxidation Vs Hard Anodizing: Process Features and Coating Properties* in "Surface Engineering", Ed: D. Srinivasa Rao and Shrikant V. Joshi, Pubs: NAM S&T Centre, Daya Publishing House, 2010 pp: 231-265, ISBN: 9788170356288.



BOARD / EXPERT COMMITTEE MEMBER:

- ✓ Chairman: *Aerospace Working Group, ARCI*, 2017-19.
- ✓ Member, Recruitment / Assessment and Policy Making Committees, ARCI – 2016 onwards.
- ✓ Departmental Peer Review Committee Member, *Department of Metallurgical and Materials Engineering, NIT-Warangal* – 2015.
- ✓ Industry – Institute Interaction Committee Member, *Department of Metallurgical Engineering, JNTU-Hyderabad* - 2014 onwards.
- ✓ DRDO Assessment Council (DAC) technical expert, *Research Centre Imarat, Hyderabad*, 2015.
- ✓ JRF/SRF Screening and Interview Board Member, *International Advanced Research Centre, Hyderabad* – 2014, 2016.
- ✓ M.Tech. Thesis Examiner, *Department of Mechanical Engineering & Department of Metallurgical and Materials Engineering, NIT-Warangal* – 2013 onwards.

RECOGNIZED REVIEWER

- ✓ Status confirmed by several prestigious international journals such as Materials and Design, Journal of American Ceramic Society, Surface & Coatings Technology, Materials Chemistry and Physics, Journal of Thermal Spray Technology, Corrosion Science,



Metallurgical and Materials Transactions A, Surface Review & Letters, Applied Surface Science, Wear, Journal of Alloys and Compounds, Materials Science & Engineering A, Advanced Powder Technology.



INVITED REVIEW ARTICLES:

- ✓ Nithin P. Wasekar, **L. Rama Krishna**, D.S. Rao, G. Padmanabham, Novel nanostructured coatings by pulsed electrodeposition, *Indian Engineering Exports*, 12 (7) (2019), 16-24.
- ✓ **L. Rama Krishna**, Y. Madhavi, P.S. Babu, D.S. Rao, G. Padmanabham, Strategies for corrosion protection of non-ferrous metals and alloys through surface engineering, *Materials Today: Proceedings* 15 (2019) 145-154.
- ✓ P.S. Babu, Y. Madhavi, **L. Rama Krishna**, D.S. Rao, G. Padmanabham, Thermally-sprayed WC-based cermet coatings for corrosion resistance applications, *JOM* 70 (11) (2018) 2636-2649.
- ✓ G. Sundararajan, S.V. Joshi and **L. Rama Krishna**, Engineered Coatings for the Automotive Engine and Power Train Components, *Current Opinion in Chemical Engineering* 11 (2016) 1-6.
- ✓ **L. Rama Krishna** and G. Sundararajan, Aqueous Corrosion Behavior of Micro Arc Oxidation (MAO) Coated Magnesium alloys – A Critical Review, *JOM* (formerly known as: *Journal of Metals*) 66 (6) (2014) 1045-1060.

CONTRIBUTED JOURNAL ARTICLES:

- ✓ N.S. Anas, R.K. Dash, R. Vijay, **L. Rama Krishna**, Tribological performance of CNT/Ni coated CNT dispersed Al alloys produced by mechanical milling and hot extrusion, *Journal of Materials Engineering & Performance*, 2019 (In press)
- ✓ A. Saikiran, S. Hariprasad, S. Arun, **L. Rama Krishna**, N. Rameshbabu, Effect of electrolyte composition on morphology and corrosion resistance of plasma electrolytic

- oxidation coatings on aluminized steel, *Surface and Coatings Technology*, 372 (2019) 239-251.
- ✓ Y. Madhavi, **L. Rama Krishna**, N. Narasaiah, Influence of micro arc oxidation coating thickness and prior shot peening on the fatigue behavior of 6061-T6 Al alloy, *International Journal of Fatigue*, 126 (2019) 297-305.
 - ✓ **L. Rama Krishna**, Y. Madhavi, T. Sahithi, D.S. Rao, V.S. Ijeri, Om Prakash, S.P. Gaydos, Enhancing the high cycle fatigue life of high strength aluminum alloys for aerospace applications, *Fatigue & Fracture of Engineering Materials and Structures*, 42 (3) (2019) 698-709.
 - ✓ R. Ghosh, A. Venugopal, P.I. Pradeep, **L. Rama Krishna**, P.R. Narayanan, B. Pant, R.M. Cherian, Effect of microstructure on the environmentally induced cracking behavior of Al-Zn-Mg-Cu-Zr aluminum alloy, *Corrosion Science and Technology*, 17 (3) (2018) 101-108.
 - ✓ **L. Rama Krishna**, Y. Madhavi, T. Sahithi, N.P. Wasekar, N.M. Chavan, D.S. Rao, Influence of prior shot peening variables on the fatigue life of micro arc oxidation coated 6061-T6 Al alloy, *International Journal of Fatigue*, 106 (2018) 165-174.
 - ✓ P.S. Babu, D. Sen, A. Jyothirmayi, **L. Rama Krishna**, D.S. Rao, Influence of microstructure on the wear and corrosion behavior of detonation sprayed Cr₂O₃- Al₂O₃ and plasma sprayed Cr₂O₃ coatings, *Ceramics International*, 44 (2018) 2351- 2357.
 - ✓ P.S. Babu, P. Chanikya Rao, A. Jyothirmayi, P.S. Phani **L. Rama Krishna**, D.S. Rao, Evaluation of microstructure, property and performance of detonation sprayed WC-(W,Cr)₂C-Ni Coatings, *Surface and Coatings Technology*, 335 (2018) 345-354.
 - ✓ T. Arunnellaiappan, S. Arun, S. Hariprasad, S. Gowtham, **L. Rama Krishna**, N. Rameshbabu, Fabrication of Corrosion Resistant Hydrophobic Ceramic Nanocomposite Coatings on PEO Treated AA7075, *Ceramics International*, 44 (1) (2018) 874-884.
 - ✓ P.S. Babu, D.S. Rao, **L. Rama Krishna**, G. Sundararajan, Weibull analysis of hardness distribution in detonation sprayed nano-structured WC-12Co coatings, *Surface and Coatings Technology*, 319 (2017) 394-402.
 - ✓ T. Arunnellaiappan, **L. Rama Krishna**, S. Anoop, R. Uma Rani, N. Rameshbabu,

- Fabrication of Multifunctional Black PEO Coatings on AA7075 for Spacecraft Applications, *Surface and Coatings Technology*, 307 (2016)735-746.
- ✓ K. Valleti, S. Puneet, **L. Rama Krishna** and S.V. Joshi, Studies on cathodic arc PVD grown TiCrN Based Erosion Resistant Thin Films, *Journal of Vacuum Science and Technology A*, 34(4) 041512-1-7, 2016.
 - ✓ T. Arunnellaiappan, M.Ashfaq, **L. Rama Krishna**, N. Rameshbabu, Fabrication of Corrosion-resistant Al₂O₃-CeO₂ Composite Coatings on AA7075 via Plasma Electrolytic Oxidation Coupled with Electrophoretic Deposition, *Ceramic International*, 42 (2016) 5897-5905.
 - ✓ A. Venugopal, J. Srinath, **L. Rama Krishna**, P.R. Narayanan, S.C. Sharma and P.V. Venkitakrishnan, Corrosion and Nanomechanical Behaviors of Plasma Electrolytic Oxidation Coated AA7020-T6 Aluminum Alloy, *Materials Science & Engineering A*, 660 (2016) 39-46.
 - ✓ T. Arunnellaiappan, N. Kishorebabu, **L. Rama Krishna**, N. Rameshbabu, Influence of Frequency and Duty cycle on Microstructure of Plasma Electrolytic Oxidized AA7075 and the Correlation to its Corrosion Behavior, *Surface and Coatings Technology* 280 (2015) 136-147.
 - ✓ **L. Rama Krishna**, P.S.V.N.B. Gupta and G. Sundararajan, The Influence of Phase Gradient within the Micro Arc Oxidation (MAO) Coatings on Mechanical and Tribological Behaviour, *Surface and Coatings Technology* 269 (2015) 54-63.
 - ✓ **L. Rama Krishna**, A. Jyothirmayi and G. Sundararajan, Relative Hardness and Corrosion Behavior of micro arc oxidation coatings formed on binary and ternary magnesium alloys, *Materials & Design* 77 (2015) 6-14.
 - ✓ K.R.C. Somaraju, A. Jyothirmayi, **L. Rama Krishna**, and R. Subasri, Corrosion Behavior of Anodized and Sol-gel Duplex Coatings on Aluminum, International Conference & Exhibition on Corrosion, *CORCON*, 2015, Nace International Gateway India Section, CL-09, 2015.

- ✓ M. Sandhyarani, N.R. Babu, K. Venkateswarlu, **L. Rama Krishna**, Fabrication, Characterization and in-vitro evaluation of nanostructured zirconia/hydroxyapatite composite film on zirconium, *Surface and Coatings Technology* 238 (2014) 58-67.
- ✓ **L. Rama Krishna**, G. Poshal, A. Jyothirmayi and G. Sundararajan, Compositionally Modulated CGDS+MAO Duplex Coatings for Corrosion Protection of AZ91 Magnesium Alloy, *Journal of Alloys and Compounds* 578 (2013) 355-361.
- ✓ D. Sreekanth, N.R. Babu, K. Venkateswarlu, Ch. Subrahmanyam, **L. Rama Krishna**, K.P. Rao, Effect of K_2TiF_6 and $Na_2B_4O_7$ as electrolyte additives on pore morphology and corrosion properties of plasma electrolytic oxidation coatings on ZM21 magnesium alloy, *Surface and Coatings Technology* 222 (2013) 31-37.
- ✓ A. Venkateswarlu, V.K. Sharma, **L. Rama Krishna**, Evaluation of Microstructure and Texture of Alloy-90 Sheets, *International Journal of Latest Trends in Engineering and Technology (IJLTET)* 2(3) (2013) 1-10.
- ✓ A. Ranade. **L. Rama Krishna**, Z. Li, J. Wang, C. Korach, Y.-W. Chung, Relationship Between Hardness and Fracture Toughness in Ti-TiB₂ Nanocomposite Coatings, *Surface and Coatings Technology* 213 (2012) 26-32
- ✓ A. Venugopal, R. Panda, S. Manwatkar, K. Sreekumar, **L. Rama Krishna**, G. Sundararajan, Effect of micro arc oxidation treatment on localized corrosion behavior of AA7075 aluminum alloy in 3.5% NaCl solution, *Trans. Nonferrous Met. Soc. China* 22 (2012) 700–710
- ✓ A. Venugopal, R. Panda, S. Manwatkar, K. Sreekumar, **L. Rama Krishna**, G. Sundararajan, Effect of Microstructure on the Localized Corrosion and Stress Corrosion Behaviours of Plasma-Electrolytic-Oxidation-Treated AA7075 Aluminum Alloy Forging in 3.5wt.%NaCl Solution, *International Journal of Corrosion*, Volume 2012, Article ID 823967, doi:10.1155/2012/823967
- ✓ **L. Rama Krishna**, G. Poshal and G. Sundararajan, Influence of Electrolyte Chemistry on Morphology and Corrosion Resistance of Micro Arc Oxidation Coatings Deposited on Magnesium, *Metallurgical and Materials Transactions A*, 41A (2010) 3499-3508.

- ✓ N. P. Wasekar, N. Ravi, P.S. Babu, **L. Rama Krishna** and G. Sundararajan, High-cycle Fatigue Behavior of Microarc Oxidation Coatings Deposited on a 6061-T6 Al alloy, *Metallurgical and Materials Transactions A*, 41-1 (2010) 255-265.
- ✓ V. Krishna, **L. Rama Krishna**, N. Ravi, Novel Multilayer Nano-composite Coatings by Cylindrical Cathodic Arc Deposition for Dry, High Speed Machining Applications, *Surface Engineering Bulletin*, Vol.2, Issue 3, October 2009, pp. 3-4.
- ✓ N.P. Wasekar, A. Jyothirmayi, **L. Rama Krishna** and G. Sundararajan, Effect of Micro Arc Oxidation Coatings on Corrosion Resistance of 6061-Al alloy, *Journal of Materials Engineering and Performance* 708 (2008) 708-713.
- ✓ **L. Rama Krishna**, Micro Arc Oxidation Coating Technology: A Recent Innovation, *Surface Engineering Bulletin*, Vol.1, Issue 1, April 2008 pp. 3-4.
- ✓ B. Rajasekaran, S.G. Sundara Raman, **L. Rama Krishna**, S.V. Joshi and G. Sundararajan, Influence of Micro Arc Oxidation and Hard Anodizing on Plain Fatigue and Fretting Fatigue Behaviour of Al-Mg-Si alloy, *Surface and coatings Technology* 202 (2008) 1462-1469.
- ✓ **L. Rama Krishna**, A. Sudha Purnima, N.P. Wasekar and G. Sundararajan, "Kinetics and Properties of Micro Arc Oxidation Coatings Deposited on Commercial Al Alloys", *Metallurgical and Materials Transactions A*, 38 (2007) 370-378
- ✓ **L. Rama Krishna**, A.S. Purnima and G. Sundararajan, "A Comparative Study of Tribological Behavior of Microarc Oxidation and Hard Anodized Coatings", *Wear*, 261 (2006) 1095-1101.
- ✓ B. Deo, **L. Rama Krishna**, A. Dey and R. Boom, "Strategies for Development of Process Control Models for Hot Metal Desulfurization: Conventional and AI Techniques", *Materials and Manufacturing Processes*", Vol. 20, 2005, 407-419.
- ✓ G. Sundararajan and **L. Rama Krishna**, "Micro Arc Oxidation: A Novel Electrochemical Coating Technique", *Proceedings of the International Convention on Surface engineering (INCOSURF)*, August 25-27 2004, 9-11.

- ✓ **L. Rama Krishna**, K.R.C. Somaraju and G. Sundararajan, "Tribological Performance of Ultra-Hard Ceramic Composite Coatings Obtained through Microarc Oxidation", *Surface and Coating Technology*, Vol.163-164, 2003, 484-490.
- ✓ G. Sundararajan and **L. Rama Krishna**, "Mechanisms underlying the formation of thick alumina coatings through the MAO coating technology" *Surface and Coatings Technology*, Vol.167, 2003, 269-277.
- ✓ **L. Rama Krishna**, D. Sen, D.S. Rao and G. Sundararajan, "Coatability and Characteristics of Fly Ash Deposited on Mild Steel by Detonation Spray Technique", *Journal of Thermal Spray Technology*, Vol.12 (1) 2003,77-79.
- ✓ **L. Rama Krishna**, D. Sen, Y.S. Rao, G.V.N. Rao and G. Sundararajan, "Thermal Spray Coating of Aluminium Nitride utilizing Detonation Spray Technique", *Journal of Materials Research*, Vol.17 (10) 2002, 2514-2523.
- ✓ G. Sivakumar, **L. Rama Krishna**, V. Jain, D.S. Rao, G. Sundararajan, and G.M. Reddy, The Influence of the Process Parameters on the Properties of Detonation Sprayed WC-12Co Coatings, *Thermal Spray 2001: New Surfaces for a New Millennium*, (Ed.) C.C. Berndt, K.A. Khor, and E.F. Lugscheider, ASM International, Materials Park, Ohio, USA, 2001, pp. 1031-1038.

TOTAL IMPACT FACTOR POINTS:150+

TOTAL CITATIONS: 1750+

H-Index: 20, I-10 Index: 28

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