TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO **Selection ID CODE 6618**

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Department of Biomedical, Surgical and Dental Sciences**

Scientist- in – charge: Prof. Brambilla Eugenio and Ionescu Andrei Cristian

Ramkumar YADAV

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	YADAV
Name	RAMKUMAR

PRESENT OCCUPATION

Appointment	Structure
Senior Researcher	Inha University, Incheon, South Korea

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Bachelor of Technology (B.Tech)	Mechanical Engineering	Poornima College of Engineering, Jaipur, India	2011
Specialization			
Mater of Technology (M.Tech)	Production Engineering	Poornima College of Engineering, Jaipur, India	2015
Doctor of Philosophy (Ph.D)	Mechanical Engineering	Malaviya National Institute of Technology (MNIT), Jaipur, India	2023

FOREIGN LANGUAGES

Languages	level of knowledge
Hindi	Mother tongue
English	Professional
Korean	Professional
Italian	Basic

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2023	World's top 2% scientist, ranking by Stanford University. https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6 Table_1_Authors_singleyr_2022_pubs_since_1788_wopp_extracted_202310.xlsx
2017-2022	Ministry of Human Resource Development (MHRD) India, Institute fellowship for perusing Doctor of Philosophy (Ph.D).
2011-2013	Poornima university fellowship, India, for perusing Master of Technology (M.Tech).

TRAINING OR RESEARCH ACTIVITY

1. Senior Researcher, Inha University, Incheon, South Korea, from May 2023 to May 2024.
2. Post-Doctoral Researcher, Institute of Tissue Regeneration Engineering (ITREN), Dankook University, Cheonan, South Korea, from August 2022 to April 2023.
3. Assistant Professor, Mechanical Engineering, Global Institute of Technology, India, October 2014-May 2017.
4. Lecturer, Mechanical Engineering, Arya College of Engineering & IT, India, January 2013-October 2014.
5. M. Tech thesis on Productivity Improvement for 6-9 month (2013-14) at RK Foundry Pvt. Ltd, Jaipur.
6. Summer Training in Manufacturing Dept for one month (June 2009) at OMAX Pvt. Ldt, Dharuheda, Hariyana.

PROJECT ACTIVITY

Year	Project
2023-2024	Development of metal-ceramic composites
2022-2023	Development of polymer-ceramic composites and silane treatment of particles

CONGRESSES AND SEMINARS

Date	Title	Place
25 April 2024	ICSIS-2024 (International Conference - Convergence-2024) (Session Chair)	PIET, Jaipur, India
7 March 2024	Composite materials: Industrial and non industrail applications (Oral Presentation-Invited Speaker)	National Institute of Technology, Rourkela, India
21-25 April 2014	AICTE recognized short term course (Workshop)	Arya college of Engg Jaipur, India
18-19 April 2014	Failure Mode and effective Analysis of Automotive starting System", International conference on Advance Trends in Engg. & Technology (Oral Presentation-Invited Speaker)	ACEIT, Jaipur, India
16-20 Dec, 2013	Research Methodology (Workshop)	MNIT, Jaipur, India

19-23 Nov, 2012	AICTE recognized short term course (Workshop)	RIT, Jaipur, India
29 Feb, 2012	Research Methodology (Workshop)	PCE, Jaipur, India
11-12 Feb, 2012	Implementation of SPC in Bearing Manufacturing (Oral Presentation-Invited Speaker)	Alwar Local Centre, India
21 Jan, 2012	Development of Reliable Grinding Procedure for Ceramic Medical Instruments (Oral Presentation-Invited Speaker)	PCE, Jaipur, India
23-24 Dec, 2011	A Review of Total Quality Management in Terms of Six Sigma (Oral Presentation-Invited Speaker)	REC, Jaipur, India

PUBLICATIONS

	Articles in reviews
	2024
1. IF. 6.2 (Q1)	**Yadav R** et al. Experimental tribological and mechanical behavior of aluminium alloy 6061 composites incorporated ceramic particulates using Taguchi analysis. Tribol Int 2024;190:109243. https://doi.org/10.1016/j.triboint.2023.109243
2. IF. 2.4 (Q2)	Meena R, Mallik M, **Yadav R*** et al. Investigation of physical properties of bamboo dust with marble powder filled ceramic composites: Sustainable approach for ceramic tiles manufacturing. Proc Inst Mech Eng L: J Mater Des Appl 2024. https://doi.org/10.1177/1464420723122
	2023
3. IF. 8.7 (Q1)	**Yadav R** et al. The role of fillers to enhance the mechanical, thermal, and wear characteristics of polymer composite materials: A review. Compos Part A Appl Sci Manuf 2023; 175: 107775. https://doi.org/10.1016/j.compositesa.2023.107775
4. IF. 3.4 (Q2)	Saini S, Meena A, **Yadav R***, et al. Fabrication, Evaluation, and Performance Ranking of Tri-calcium Phosphate and Silica Reinforced Dental Resin Composite Materials. Silicon 2023; 1-19. https://doi.org/10.1007/s12633-023-02646-6
5. IF. 3.9 (Q2)	**Yadav R** et al. Selection and ranking of dental restorative composite materials using hybrid Entropy-VIKOR method: An application of MCDM technique. J Mech Behav Biomed Mater 2023; 114:106103. https://doi.org/10.1016/j.jmbbm.2023.106103
6. IF. 6.2 (Q1)	**Yadav R** et al. Tribological behavior of dental resin composites: A comprehensive review. Tribol Int 2023;190:109017. https://doi.org/10.1016/j.triboint.2023.109017
7. IF. 6.2 (Q1)	Saini S, Meena A, **Yadav R***, et al. Investigation of physical, mechanical, thermal, and tribological characterization of tricalcium phosphate and zirconia particulate reinforced dental resin composite materials. Tribol Int 2023;181:108322 https://doi.org/10.1016/j.triboint.2023.108322
	2022
8. IF. 6.2 (Q1)	**Yadav R** et al. A comprehensive review: Physical, mechanical, and tribological characterization of dental resin composite materials. Tribol Int 2022; 179:108102 https://doi.org/10.1016/j.triboint.2022.108102
9. IF. 6.2 (Q1)	**Yadav R** et al. Effect of alumina particulate and E-glass fiber reinforced epoxy composite on erosion wear behavior using Taguchi orthogonal array. Tribol Int 2022; 175: 107860. https://doi.org/10.1016/j.triboint.2022.107860

10. IF. 3.4 (Q2)	**Yadav R** and Lee HH. Fabrication, characterization, and selection using FAHP-TOPSIS technique of zirconia, titanium oxide, and marble dust powder filled dental restorative composite materials. Polym Adv Technol 2022; 33(10): 3286-3295. http://doi.org/10.1002/pat.5780
11. IF. 3.9 (Q2)	**Yadav R** and Lee HH. Ranking and selection of dental restorative composite materials using FAHP-FTOPSIS technique: An application of multi criteria decision making technique. J Mech Behav Biomed Mater 2022; 132: 105298. https://doi.org/10.1016/j.jmbbm.2022.105298
12. IF. 5.2 (Q1)	**Yadav R.** and Meena A. Effect of aluminium oxide, titanium oxide, hydroxyapatite filled dental restorative composite materials on physico-mechanical properties. Ceram Int 2022; 48(14):20306-20314. https://doi.org/10.1016/j.ceramint.2022.03.311
13. IF. 3.4 (Q2)	**Yadav R**, Meena A, and Patnaik A. Biomaterials for dental restorative composite applications: A comprehensive review of physical, chemical, mechanical, thermal, tribological, and biological properties. Polym Adv Technol 2022; 33(6):1762-1781. http://doi.org/10.1002/pat.5648
14. IF. 5.2 (Q1)	**Yadav R**, Meena A, and Patnaik A. Tribological behavior of zinc oxide-hydroxyapatite particulates filled dental restorative composite materials. Polym Compos 2022; 43(5):3029-3040. http://doi.org/10.1002/pc.26597
2021	
15. IF. 2.4 (Q2)	**Yadav R.** and Meena A. Comparative study of thermo-mechanical and thermo gravimetric characterization of hybrid dental restorative composite materials. Proc Inst Mech Eng L: J Mater Des Appl 2021; 236(5): 1122-1129. https://doi.org/10.1177/14644207211069763
16. IF. 5.2 (Q1)	Meena A, Bisht D, **Yadav R***, et al. Fabrication and characterization of micro-hybrid particulate filled dental restorative composite materials. Polym Compos 2021; 43(3): 1526-1535. https://doi.org/10.1002/pc.26473
17. IF. 5.2 (Q1)	**Yadav R.** and Meena A. Comparative investigation of tribological behavior of hybrid dental restorative composite materials. Ceram Int 2021; 48(5): 6698-6706. https://doi.org/10.1016/j.ceramint.2021.11.220
18. IF.2.1 (Q2)	**Yadav R.** Fabrication, characterization, and optimization selection of ceramic particulate reinforced dental restorative composite materials. Polym Polym Compos 2021; 30: 1-10. https://doi.org/10.1177/09673911211062755
19. IF. 5.2 (Q1)	**Yadav R.** and Meena A. Mechanical and two-body wear characterization of micro-nano ceramic particulate reinforced dental restorative composite materials. Polym Compos 2021; 43(1): 467-482. https://doi.org/10.1002/pc.26391
20. IF. 5.2 (Q1)	**Yadav R.** Analytic hierarchy process-technique for order preference by similarity to ideal solution: A multi criteria decision-making technique to select the best dental restorative composite materials. Polym Compos 2021; 42 (12): 6867-6877. https://doi.org/10.1002/pc.26346
2020	
21. IF. 2.9 (Q2)	**Yadav R** and Kumar M. Investigation of the physical, mechanical and thermal properties of nano and microsized particulate-filled dental composite material. J Compos Mater 2020; 54(19): 2623-2633. https://doi.org/10.1177/0021998320902212
2019	
22. IF. 2.4 (Q2)	**Yadav R** and Kumar M. Dental restorative composite materials: A review. J Oral Biosci 2019; 61(2): 78-83. https://doi.org/10.1016/j.job.2019.04.001

Congress proceedings
1. Pratap B, Nag M, **Yadav R*,** et al. Dynamic mechanical analysis of zinc oxide and hydroxyapatite particulate filled dental restorative composite materials. AIP Conference Proceedings 2782 (1), 2023. https://doi.org/10.1063/5.0154476

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Place and date: Incheon, South Korea, 08/05/2024