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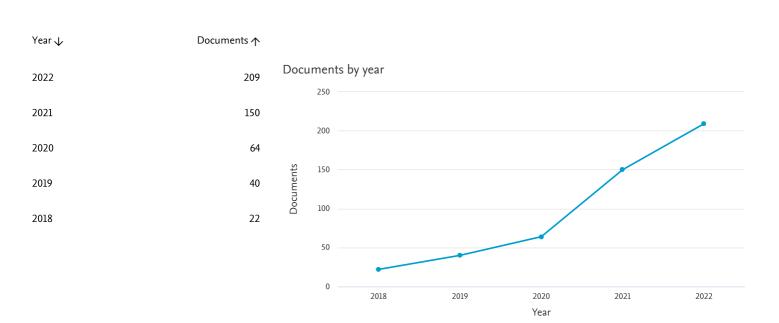
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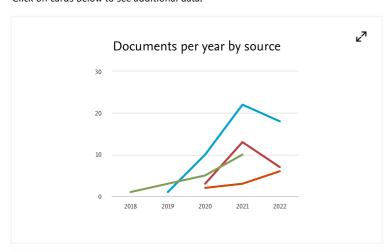
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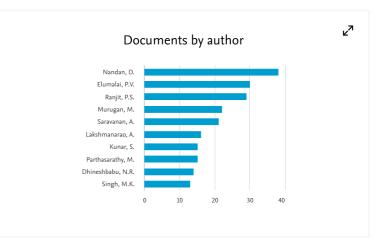
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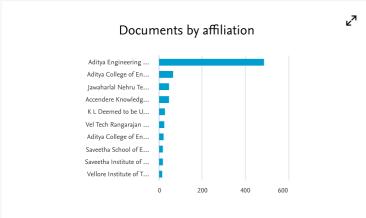
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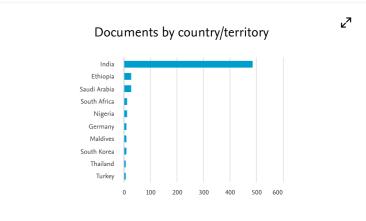


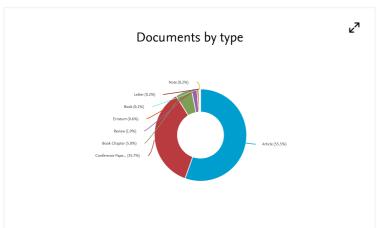
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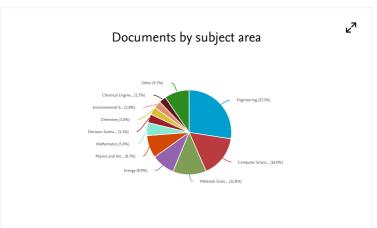


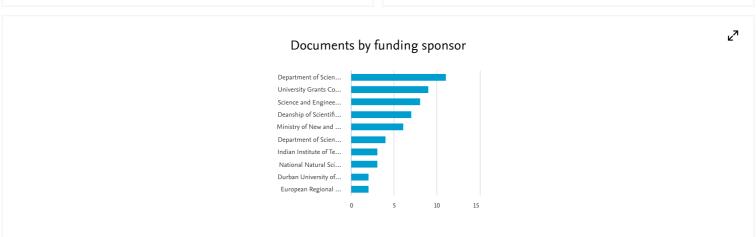












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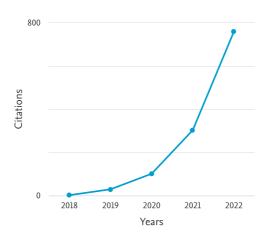
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Publisher: Elsevier GmbH

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2) Mahesha, C.R.<sup>a</sup>, Rani, G.J.<sup>b</sup>, Dattu, V.S.N.C.H.<sup>c</sup>, Rao, Y.K.S.S.<sup>c</sup>, Madhusudhanan, J.<sup>d</sup>, Natrayan, L.<sup>e</sup>, Sekhar, S.C.<sup>f</sup>, Sathyamurthy, R.<sup>g.h</sup>

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Publisher: Elsevier Ltd

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h Department of Mechanical Engineering, University Centre for Research & Development, Chandigarh University, Gharuan, Punjab, Mohali, India

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k Department of Mechanical Engineering, University Centre for Research & Development, Chandigarh University, Gharuan, Punjab, Mohali, India

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<sup>a</sup> Department of Civil Engineering, Aditya Engineering College, A.P., Surampalem, India

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<sup>&</sup>lt;sup>a</sup> Megha Engineering and Infrastructures Limited, Hyderabad, 500037, India

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<sup>a</sup> Department of Civil Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India

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<sup>c</sup> Department of Structural Engineering, University of California San Diego, United States

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<sup>a</sup> Department of Civil Engineering, Aditya Engineering College, Andhra Pradesh, East Godayari (D.T), Surampalem, 533437, India

b Centre for Advanced Research On Environment, School of Civil Engineering, SASTRA Deemed To Be University, Tamil Nadu, Thanjavur, 613401, India

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<sup>c</sup> Electrical and Electronics Engineering Department, Aditya Engineering College, Andhra Pradesh, Surampalem, India

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<sup>a</sup> Department of Information Technology, College of Computer and Information Sciences, Majmaah University, Al-Majmaah, 11952, Saudi Arabia

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<sup>&</sup>lt;sup>a</sup> Department of Nanoscience and Technology, K. S. Rangasamy College of Technology, Tamil Nadu, Tiruchengode, 637215, India

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<sup>&</sup>lt;sup>b</sup> JNTUK College of Engineering

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- <sup>a</sup> Research School for Southeast Asian Studies, Xiamen University, Fujian, 361005, China
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- <sup>e</sup> Department of Earth Science Studies, University of Mysore, Mysuru, 570006, India

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- <sup>b</sup> Aditya College of Engineering & Technology Surampalem, India
- <sup>c</sup> Aditya College of Engineering Surampalem, India
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<sup>&</sup>lt;sup>a</sup> Department of Mining Engineering, Aditya Engineering College (A), A.P., Surampalem, India

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- h Department of Automobile Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, India

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- <sup>a</sup> CL Educate Ltd, New Delhi, 110044, India
- <sup>b</sup> Department of Electronics and Communication Engineering, Jaypee University of Engineering and Technology, Guna M.P., 473226, India
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<sup>a</sup> Department of Electronics and Communication Engineering, Aditya Engineering College, Surampalem, Andhra Pradesh, India

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<sup>&</sup>lt;sup>a</sup> Department of Electrical and Electronics Engineering, Aditya Engineering College, Surampalem, Research Scholar, JNTUKA.P, India

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<sup>a</sup> Department of ECE, Aditya Engineering College, Surampalem, AP, India

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<sup>&</sup>lt;sup>a</sup> Department of Electronics and Communication Engineering, Aditya Engineering College, Surampalem, East Godavari, India

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<sup>&</sup>lt;sup>a</sup> Department of Electronics and Communication Engineering, Aditya Engineering College, East Godavari District, Surampalem, India

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<sup>&</sup>lt;sup>c</sup> Department of Electrical and Electronics Engineering, Aditya college of Engineering, ADB Road, Surampalem, Kakinada, Andhra Pradesh, India

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