



د. دنانجاي ياداف

أستاذ مشارك

العلوم الرياضية والفيزيائية – شعبة الرياضيات

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يعمل في الجامعة: منذ 2017

الحالة الاجتماعية: Married....

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المؤهلات الأكاديمية

Ph.D., Indian Institute of Technology Roorkee (IITR) India, 2013

M.Sc., DDU University, Gorakhpur, India, 2007

B.Sc., DDU University, Gorakhpur, India, 2005

أنشطة التدريس

Calculus

Linear Algebra

Numerical Analysis

Mathematics for Teacher

Differential Equation for Engineers

Pre-Calculus

Ordinary and Partial Differential Equations

Mathematical Methods

CO2 capture, storage and oil recovery

Computational sustainability and environmental analytics

Nanofluids

Fluid flow in porous media

Modelling on Greenhouse gas emissions from agriculture field

المنشورات -

مقال:

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2. MK Awasthi, SK Pundir, M Devi, Dhananjay Yadav, V Kumar, AK Singh, 2022, Instability of a Viscoelastic Cylindrical Jet: The VCVPF Theory, Mathematical Modeling for Intelligent Systems Theory, Methods, and Simulation, CRC Press, Taylor & Francis Group, <https://doi.org/10.1201/9781003291916-14>, Scopus

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4. M.K. Awasthi, Dharamendra, Dhananjay Yadav, "Temporal instability of nanofluid layer in a circular cylindrical cavity". The European Physical Journal Special Topics, 231,2773-2779, 2022. <https://doi.org/10.1140/epjs/s11734-022-00599-2>. (Springer, Publication, IF: 4.99, H-Index: 183, Scopus, Web of Science)

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8. U.S. Mahabaleshwar, T. Anusha, O.A. Bégu, Dhananjay Yadav, T. Botmart, "Impact of Navier's slip and chemical reaction on the hydromagnetic hybrid nanofluid flow and mass transfer due to porous stretching sheet", Scientific Reports, 12, 10451, 2022. <https://www.nature.com/articles/s41598-022-14692-y> (Nature Publication, United Kingdom, IF-4.996. H index: 242, Scopus, Web of Science)

A.K. Verma, S. Rajput, K. Bhattacharyya, A.J. Chamkha, Dhananjay Yadav, "Comparison between graphene-water and graphene oxide-water nanofluid flows over exponential shrinking sheet in porous medium: Dual solutions and stability analysis", *Chemical Engineering Journal Advances*, 2022. <https://doi.org/10.1016/j.cej.2022.100401> (Elsevier Publication, Scopus, Web of Science).

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S. Shekhar, R. Ragoju, and Dhananjay Yadav, "The effect of variable gravity on rotating Rayleigh-Bénard convection in a sparsely packed porous layer," *Heat Transfer*, vol. 51, pp. 4187-4204, 2022. <https://doi.org/10.1002/htj.22495>. (Wiley Publication, H index-30, Scopus, Web of Science).

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[Dhananjay Yadav, J. Wang: 2017, Modelling Carbon Dioxide Emissions from Agricultural 2017 .46
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- [Dhananjay Yadav, J. Lee, H.H. Cho: 2016, Throughflow and quadratic drag effects on the onset of convection in a Forchheimer-extended Darcy porous medium layer saturated by a nanofluid, Journal of the Brazilian Society of Mechanical Sciences and Engineering, 38, 2299-2309 \(\(Springer Publications, IF-1.3](#) 2016 .53
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- [Dhananjay Yadav, D. Lee, H.H. Cho and J. Lee: 2016, The onset of double-diffusive nanofluid convection in a rotating porous medium layer with thermal conductivity and viscosity .\(variation: A revised model, Journal of Porous Media 19, 1-16 \(Bengell House Publications, IF-1.03](#) 2016 .55
- [Dhananjay Yadav, D. Nam, J. Lee: 2016, The onset of transient Soret-driven MHD convection confined within a Hele-Shaw cell with nanoparticles suspension, Journal of the Taiwan .\(Institute of Chemical Engineers, 58, 235-244 \(Elsevier Publications, IF-4.2](#) 2016 .56
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كتاب:

Yadav, D.: 2014, Hydrodynamic and Hydromagnetic Instability in Nanofluids, Lambert Academic Publishing, Germany. ISBN-13: 978-3659592010

الأنشطة الاستشارية

Senior Post Doc. Fellow, Athabasca University Canada, 2016- 2017

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Post Doc. Fellow, Jeju National University, Jeju, South Korea, 2013- 2014

Assistant Professor, Mangalayatan University Aligarh, India, 2013- 2013

Teaching Assistantship, Indian Institute of Technology Roorkee (IITR), India, 2010- 2013

العضوية في الهيئات المهنية

Editorial Board member of Probe-Chemical and Biochemical Engineering :الآن-2019

Editorial board member of ``The Open Mechanical Engineering Journal :الآن-2019

Editorial Board member of Fluid Mechanics Journal :الآن-2018

Editor in Chief of International Journal of Energy and Thermal Fluids :الآن-2016

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