

**UNIVERSITATEA NAȚIONALĂ DE ȘTIINȚĂ ȘI TEHNOLOGIE POLITEHNICA DIN
BUCUREȘTI**

FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE PREZENTARE LA

- OBȚINEREA ATESTATULUI DE ABILITARE -

CANDIDAT: Șef lucrări Dr. Ing. Narcisa VRINCEANU

Departament: Mașini si Echipamente Industriale, Facultatea de Inginerie, UNIVERSITATEA „LUCIAN BLAGA” DIN SIBIU

Condiții	Îndeplinire condiții	
A. Doctor	Diploma de Doctor în domeniul Inginerie Chimică, emisă de Universitatea TEHNICA “Gheorghe Asachi” din Iași, în baza OMECT 4698 din 14.08.2009.	
B. Îndeplinirea standardelor minime naționale conform OMECTS nr. Ordinul 6129/2016 Ordinul 6129/2016 privind aprobarea standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare, Comisia 8.	Standarde îndeplinite, conform Comisiei CNATDCU Nr 8 Anexată: Fișa de calcul și de susținere a îndeplinirii standardelor minimale specifice domeniului, în acord cu realizările menționate:	
Standarde minimale și obligatorii	Minim prevăzut	Realizat
Număr total de articole după susținerea tezei de doctorat în reviste cotate WoS situate în top 25% (Q1)- după factor de impact, în calitate de autor principal. Situația revistelor în top 25% se judeca la data înscrierii la concurs sau la data publicării. 1 Articol Q1 se poate echivala cu un brevet internațional.	4	26
NP = număr articole în reviste cotate WoS la care candidatul este autor principal (prim autor sau autor de corespondență). Autorul cu calitatea de “prim-autor” nu poate fi decât cel care este trecut primul în lista de autori, iar în calitate de “autor de corespondență” se admit maxim 2, cu condiția să aparțină unor instituții diferite sau unor domenii de expertiză diferite. În caz contrar, punctajul se va împărți la numărul de autori de corespondență. De exemplu, un articol cu 4 autori de corespondență va conta în calculul FIC, NP și NTOP cu 1/4	20	56
FIC = factor de impact cumulat (suma factorilor de impact ale revistelor la momentul înscrierii la concursul pentru abilitare sau ocuparea unei poziții didactice / de cercetare)	30	214.033
Numărul total de citări (din baza de date SCOPUS, fără autocitări), NC	120	1246
Numărul de contracte de cercetare-dezvoltare-inovare obținute prin competiție (director)	1	1
C. Atestarea studiilor (diploma + Foi Matricole) și a altor realizări profesionale	Diplomă licență, în profilul Chimie, specializarea Finisare chimica textila, Seria L nr. 13969, Nr. 53458 din 14.10.1993 emisă de	

	Universitatea TEHNICA "Gheorghe Asachi" din Iași
	Foaie Matricolă la diploma de licență seria C, nr. 269 din registrul matricol, volumul LXI, nr. 11619, anul 1993, pentru anii universitari 1988-1993
	Diplomă de Master, Specializarea Optimizarea proceselor de finisare textila, Nr. 1535 din 19.01.2001, Seria E, nr. 0003470, emisă de Universitatea Tehnica „Gheorghe Asachi” din Iași
	Foaie Matricolă pentru Diploma de Master - Seria E, Nr. 0003470, registrul matricol volumul XXL N. 14592, pentru anii universitari 1999-2000
	Certificat de absolvire al Departamentului pentru Pregătirea Personalului Didactic; Universitatea „Lucian Blaga” din Sibiu, Extras din Registrul matricol volumul 8 anul 2007, nr. 0249 din 25.09.2025.

Subsemnata Narcisa VRINCEANU, Departamentul de Mașini și Echipamente Industriale, Facultatea de Inginerie, Universitatea „Lucian Blaga” din Sibiu, Domeniul de Studii Universitare Inginerie Chimică, arondat Comisiei de Specialitate CNATDCU [OMECTS 6129/20.12.2016] Nr 8, Inginerie Chimică, Inginerie Medicală, Știința Materialelor și Nanomateriale, declar pe propria răspundere, cunoscând prevederile art. 292 privind falsul în declarații, din Legea 286/2009 - Codul Penal, ca sunt îndeplinite toate Standardele minimale prevăzute de Metodologia UPB 2013 actualizată în conformitate cu schimbările de legislație în domeniu în 2017 și 2018 pentru înscrierea la concurs și susțin veridicitatea informațiilor prezentate în dosar și în materialul de mai sus. Lucrările considerate a fi incluse în Baza ISI Thomson Reuters sau în alte Baze de Date Internaționale [BDI] sunt vizibile în aceste baze, în dreptul numelui candidatului, la aceasta dată.

ÎN CONTINUARE: Fișa de calcul și de susținere a îndeplinirii standardelor minimale specifice domeniului, în acord cu realizările menționate.

Candidat,

Șef lucrări Dr. Ing. Narcisa VRINCEANU

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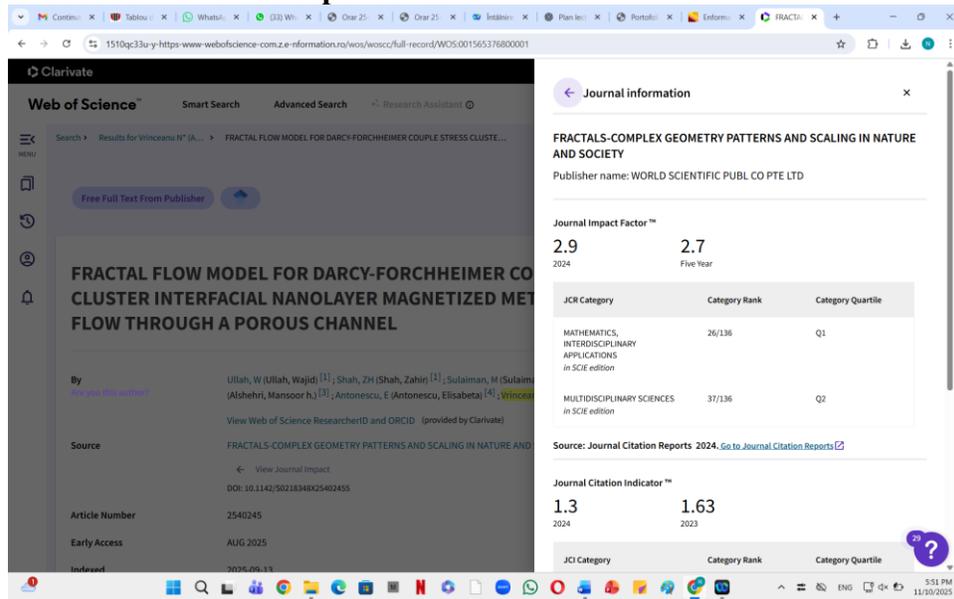
Narcisa

Numărul total de articole WoS situate în top 25% (zona roșie)

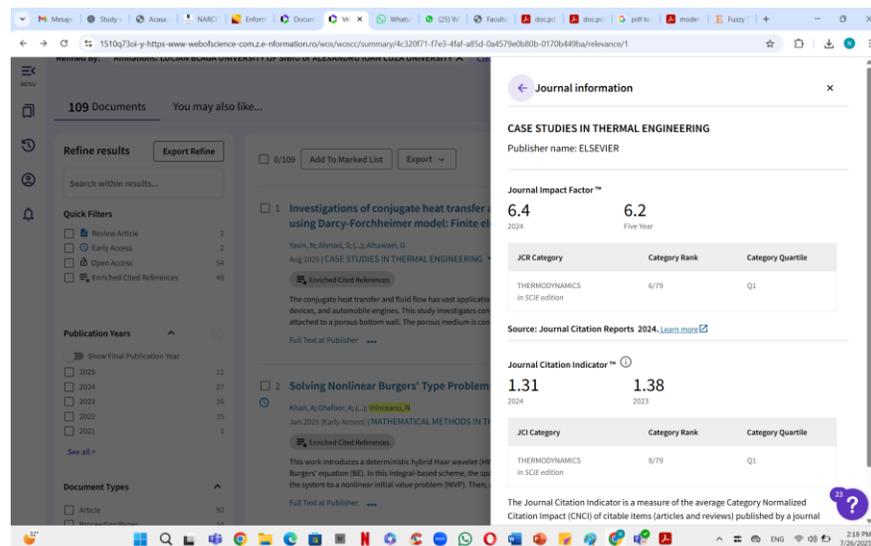
NTOP ≥ 4

NTOP = 26 *Wahana*

- Ullah, W; Shah, ZH; Sulaiman, M; Alshehri, MH; Antonescu, E; **Vrinceanu, N** (2025). Fractal flow model for Darcy–Forchheimer couple stress cluster interfacial nanolayer magnetized metallic nanofluid flow through a porous channel. *Fractals: Complex Geometry, Patterns and Scaling in Nature and Society*. <https://doi.org/10.1142/S0218348X25402455>, (IF₂₀₂₄=2.9), WOS:001565376800001 **Autor corespondenta**



- Yasin, N., Ahmad, S., Umair, M., Shah, Z., **Vrinceanu, N.**, Alhawael, G. (2025). Investigations of conjugate heat transfer and fluid flow in partitioned porous cavity using Darcy-Forchheimer model: Finite element-based computations. *Case Studies in Thermal Engineering*, 72, (pp. 1–13). <https://doi.org/10.1016/j.csite.2025.106252> (IF₂₀₂₄ = 6.4), WOS:001496143500004 **Autor corespondenta**



Muhammad

3. Zeb, M., Awais, M., Waheed, A., Shah, Z., **Vrinceanu, N.**, Antonescu, E. (2025). Intelligent framework for dual solutions of copper oxide nanoparticles suspension in thermally varied fluid reservoirs using the Koo–Kleinstreuer–Li (KKL) Model. *Alexandria Engineering Journal*, 124, 435–445. <https://doi.org/10.1016/j.aej.2025.03.126> (IF₂₀₂₄ = 6.8), WOS: 001465287200001 **Autor corespondenta**

The screenshot shows the journal information for Alexandria Engineering Journal. The journal is published by Elsevier and has a Journal Impact Factor (JIF) of 6.8 for 2024 and a five-year JIF of 6.1. The JCR Category is Engineering, Multidisciplinary in SCIE edition, with a Category Rank of 9/175 and a Category Quartile of Q1. The Journal Citation Indicator (JCI) is 2.12 for 2024 and 2.3 for 2023, with a JCI Category Rank of 7/175 and a Category Quartile of Q1. The source is Journal Citation Reports 2024.

JCR Category	Category Rank	Category Quartile
ENGINEERING, MULTIDISCIPLINARY in SCIE edition	9/175	Q1

JCI Category	Category Rank	Category Quartile
ENGINEERING, MULTIDISCIPLINARY in SCIE edition	7/175	Q1

4. Jameel, M., Shah, Z. H., Rooman, M., Alshehri, M. H., **Vrinceanu, N.**, Antonescu, E. (2024). Entropy driven optimization of non-linear radiative chemically reactive Sutterby nanofluid flow in presence of gyrotactic micro-organism with Hall effect and activation energy. *Scientific Reports*, 14, <https://doi.org/10.1038/s41598-024-81932-8> (FI₂₀₂₄=3.9) (WOS: 001372606600028) **Autor corespondenta**

The screenshot shows the journal information for Scientific Reports. The journal is published by Nature Portfolio and has a Journal Impact Factor (JIF) of 3.9 for 2024 and a five-year JIF of 4.3. The JCR Category is Multidisciplinary Sciences in SCIE edition, with a Category Rank of 25/135 and a Category Quartile of Q1. The Journal Citation Indicator (JCI) is 1.07 for 2024 and 1.05 for 2023, with a JCI Category Rank of 24/135 and a Category Quartile of Q1. The source is Journal Citation Reports 2024.

JCR Category	Category Rank	Category Quartile
MULTIDISCIPLINARY SCIENCES in SCIE edition	25/135	Q1

JCI Category	Category Rank	Category Quartile
MULTIDISCIPLINARY SCIENCES in SCIE edition	24/135	Q1

Uthman

5. Zaman, T., Shah, Z. H., Rooman, M., Khan, W., Alshehri, M. H., **Vrinceanu, N.** (2024). Rheological analysis of magnetized trihybrid nanofluid drug carriers in unsteady blood flow through a single-stenotic artery. *Chinese Journal of Physics*, 91, 538–559. <https://doi.org/10.1016/j.cjph.2024.08.002> (FI₂₀₂₄=4.6) WOS 001297613700001 **Author corespondenta**

The screenshot shows the article page for 'Rheological analysis of magnetized trihybrid nanofluid drug carriers in unsteady blood flow through a single-stenotic artery' by Zaman, T., Shah, Z. H., Rooman, M., Khan, W., Alshehri, M. H., and Vrinceanu, N. The article is published in the Chinese Journal of Physics, Volume 91, pages 538-559, in October 2024. The Journal Impact Factor (JIF) for 2024 is 4.6, and the five-year JIF is 3.7. The JCR Category is Physics, Multidisciplinary in SCIE edition, with a Category Rank of 23/114 and a Category Quartile of Q1. The Journal Citation Indicator (JCI) for 2024 is 1.38, and for 2023 it is 1.39. The JCI Category is also Physics, Multidisciplinary in SCIE edition, with a Category Rank of 15/114 and a Category Quartile of Q1.

6. Khan, M. S., Shah, Z. H., Rooman, M., AL Garalleh, H., **Vrinceanu, N.**, Khan, W. (2024). Rayleigh-Benard convection and sensitivity analysis of magnetized couple stress water conveying bionanofluid flow with thermal diffusivities effect. *Results in Engineering*. 23 <https://doi.org/10.1016/j.rineng.2024.102652> (FI₂₀₂₄ = 7.9) WOS: 001288679700001 **Author corespondenta**

The screenshot shows the article page for 'Rayleigh-Benard convection and sensitivity analysis of magnetized couple stress water conveying bionanofluid flow with thermal diffusivities effect' by Khan, M. S., Shah, Z. H., Rooman, M., AL Garalleh, H., Vrinceanu, N., and Khan, W. The article is published in Results in Engineering, Volume 23, page 102652, in September 2024. The Journal Impact Factor (JIF) for 2024 is 7.9, and the five-year JIF is 7.4. The JCR Category is Engineering, Multidisciplinary in ESCI edition, with a Category Rank of 6/175 and a Category Quartile of Q1. The Journal Citation Indicator (JCI) for 2024 is 2.15, and for 2023 it is 1.87. The JCI Category is also Engineering, Multidisciplinary in ESCI edition, with a Category Rank of 6/175 and a Category Quartile of Q1.

Mishra

7. Panda, S., Shamshuddin, M., Pattnaik, P. K., Mishra, S. R., Shah, Z. H., Alshehri, M. H., & **Vrinceanu, N.** (2024). Ferromagnetic effect on Casson nanofluid flow and transport phenomena across a bi-directional Riga sensor device: Darcy–Forchheimer model. *Nanotechnology Reviews*, 13(1), <https://doi.org/10.1515/ntrev-2024-0021> (FI₂₀₂₄=6.1) WOS: 001250670200001 **Author corespondenta**

The screenshot displays the article page for 'Ferromagnetic effect on Casson nanofluid flow and transport phenomena across a bi-directional Riga sensor device: Darcy–Forchheimer model' in the journal *Nanotechnology Reviews*. The authors listed are Panda, S., Shamshuddin, M., Pattnaik, P. K., Mishra, S. R., Shah, Z. H., Alshehri, M. H., and Vrinceanu, N. The article was published in Volume 13, Issue 1, in June 2024. The DOI is 10.1515/ntrev-2024-0021. The 'Journal information' sidebar shows the Journal Impact Factor (FI) for 2024 is 6.1 and for the five-year period is 6.7. It also lists JCR Categories and their corresponding ranks and quartiles.

JCR Category	Category Rank	Category Quartile
CHEMISTRY, MULTIDISCIPLINARY <i>in SCIE edition</i>	52/239	Q1
MATERIALS SCIENCE, MULTIDISCIPLINARY <i>in SCIE edition</i>	125/460	Q2
NANOSCIENCE & NANOTECHNOLOGY <i>in SCIE edition</i>	45/147	Q2
PHYSICS, APPLIED <i>in SCIE edition</i>	40/187	Q1

8. Raza, J., Mustafa, F., Lund, L. A., Shah, Z. H., Alshehri, M. H., **Vrinceanu, N.** (2024). Optimization of heat transfer rate of trihybrid nanofluid embedded between two horizontal coaxial cylinders by RSM. *Case Studies in Thermal Engineering*, 60, 104637 <https://doi.org/10.1016/j.csite.2024.104637> (FI₂₀₂₄=6.4) WOS: 001258282700001 **Author corespondenta**

The screenshot displays the article page for 'Optimization of heat transfer rate of trihybrid nanofluid embedded between two horizontal coaxial cylinders by RSM' in the journal *Case Studies in Thermal Engineering*. The authors listed are Raza, J., Mustafa, F., Lund, L. A., Shah, Z. H., Alshehri, M. H., Mansoor, H., and Vrinceanu, N. The article was published in Volume 60, in August 2024. The DOI is 10.1016/j.csite.2024.104637. The 'Journal information' sidebar shows the Journal Impact Factor (FI) for 2024 is 6.4 and for the five-year period is 6.2. It also lists JCR Categories and their corresponding ranks and quartiles.

JCR Category	Category Rank	Category Quartile
THERMODYNAMICS <i>in SCIE edition</i>	6/79	Q1

Wahid

9. Soomro, A. M., Fadhel, M. A., Lund, L. A., Shah, Z., Alshehri, M. H., **Vrinceanu, N.** (2024). Dual solutions of magnetized radiative flow of Casson Nanofluid over a stretching/shrinking cylinder: Stability analysis. *Heliyon*, 10(8), (FI₂₀₂₄=3.6) <https://doi.org/10.1016/j.heliyon.2024.e29696> WOS: 001233374400001 **Autor corespondenta**

The screenshot shows the journal information for the article "Dual solutions of magnetized radiative flow of Casson stretching/shrinking cylinder: Stability analysis" published in Heliyon. The journal is published by CELL PRESS. The Journal Impact Factor (JIF) for 2024 is 3.6, and the five-year JIF is 3.9. The JCR Category is MULTIDISCIPLINARY SCIENCES in SCIE edition, with a Category Rank of 29/135 and a Category Quartile of Q1. The Journal Citation Indicator (JCI) for 2024 is 0.84, and for 2023 it is 0.82. The JCI Category is MULTIDISCIPLINARY SCIENCES in SCIE edition, with a Category Rank of 39/135 and a Category Quartile of Q2. The article is by Soomro, AM (Soomro, Azhar Mustafa) [1], Fadhel, MA (Fadhel, Mustafa Abbas) [2], Shah, Z (Shah, Zahir) [3], Alshehri, MH (Alshehri, Mansoor H.) [4], and Vrinceanu, N (Vrinceanu, Narcisa) [5]. The source is Journal Citation Reports 2024.

10. Khan, M. S., Ahmad, S., Shah, Z. H., **Vrinceanu, N.**, Alshehri, M. H. (2024). Natural convection heat transfer of a hybrid nanofluid in a permeable quadrantal enclosure with heat generation. *Case Studies in Thermal Engineering*, 56, <https://doi.org/10.1016/j.csite.2024.104207> (FI₂₀₂₄=6.4) WOS:001209098600001 **Autor corespondenta**

The screenshot shows the journal information for the article "Natural convection heat transfer of a hybrid nanofluid in a permeable quadrantal enclosure with heat generation" published in Case Studies in Thermal Engineering. The journal is published by ELSEVIER. The Journal Impact Factor (JIF) for 2024 is 6.4, and the five-year JIF is 6.2. The JCR Category is THERMODYNAMICS in SCIE edition, with a Category Rank of 6/79 and a Category Quartile of Q1. The Journal Citation Indicator (JCI) for 2024 is 1.31, and for 2023 it is 1.38. The JCI Category is THERMODYNAMICS in SCIE edition, with a Category Rank of 8/79 and a Category Quartile of Q1. The article is by Khan, MS (Khan, Muhammad Salim) [1], Ahmad, S (Ahmad, Shafee) [2], Shah, ZH (Shah, Zahir H.) [3], Vrinceanu, N (Vrinceanu, Narcisa) [4], and Alshehri, MH (Alshehri, Mansoor H.) [5]. The source is Journal Citation Reports 2024.

Muhammad

11. Khan, M. S., Ahmad, S., Al Garalleh, H., **Vrinceanu N.** (2024). Computational study of double diffusive MHD natural convection flow of non-Newtonian fluid between concentric cylinders. *Results in Engineering*, 21, <https://doi.org/10.1016/j.rineng.2024.101221> (FI₂₀₂₄=7.9) WOS 001204028600001 **Autor corespondenta**

The screenshot shows the article page for 'Computational study of double diffusive MHD natural convection flow of non-Newtonian fluid between concentric cylinders' by Khan, MS, Ahmad, S, Al Garalleh, H, and Vrinceanu, N. The article is published in 'RESULTS IN ENGINEERING' (Volume 21, March 2024). The Journal Impact Factor (JIF) for 2024 is 7.9, and the five-year JIF is 7.4. The JCR Category is 'ENGINEERING, MULTIDISCIPLINARY in ESCI edition' with a Category Rank of 6/175 and a Category Quartile of Q1. The Journal Citation Indicator (JCI) for 2024 is 2.15, and for 2023 it is 1.87. The JCI Category is also 'ENGINEERING, MULTIDISCIPLINARY in ESCI edition' with a Category Rank of 6/175 and a Category Quartile of Q1.

12. Shah, Z. H., Sulaiman, M., Alshehri, M. H., & **Vrinceanu, N.**, (2024). Gyrotactic microorganism's and heat transfer analysis of water conveying MHD SWCNT nanoparticles using fourth-grade fluid model over Riga plate. *Case Studies in Thermal Engineering*, 55, <https://doi.org/10.1016/j.csite.2024.106553> (FI₂₀₂₄=6.4) WOS:001198726700001 **Autor corespondenta**

The screenshot shows the article page for 'Gyrotactic microorganism's and heat transfer analysis of water conveying MHD SWCNT nanoparticles using fourth-grade fluid model over Riga plate' by Shah, ZH, Sulaiman, M, Alshehri, MH, and Vrinceanu, N. The article is published in 'CASE STUDIES IN THERMAL ENGINEERING' (Volume 55, March 2024). The Journal Impact Factor (JIF) for 2024 is 6.4, and the five-year JIF is 6.2. The JCR Category is 'THERMODYNAMICS in SCIE edition' with a Category Rank of 6/79 and a Category Quartile of Q1. The Journal Citation Indicator (JCI) for 2024 is 1.31, and for 2023 it is 1.38. The JCI Category is also 'THERMODYNAMICS in SCIE edition' with a Category Rank of 8/79 and a Category Quartile of Q1.

Whinao

13. Fadhel, M. A., Asghar, A., Lund, L. A., Shah, Z. H., **Vrinceanu, N.**, Tirth, V. (2024). Dual numerical solutions of Casson SA-hybrid nanofluid toward a stagnation point flow over stretching/shrinking cylinder. *Nanotechnology Reviews*, 13(1). <https://doi.org/10.1515/ntrev-2023-0191> (FI₂₀₂₄=6.1) WOS:001162198300001 **Author correspondenta**

The screenshot shows a web browser with two windows. The main window displays the article page for 'Dual numerical solutions of Casson SA-hybrid nanofluid toward a stagnation point flow over stretching/shrinking cylinder' by Fadhel, MA, Asghar, A, Lund, LA, Shah, ZH, Vrinceanu, N, and Tirth, V. The article is published in *NANOTECHNOLOGY REVIEWS*, Volume 13, Issue 1, February 14, 2024. The DOI is 10.1515/ntrev-2023-0191. The article number is 20230191. The document type is 'Article'. A 'Journal information' pop-up window is overlaid on the right side of the browser. It shows the journal name 'NANOTECHNOLOGY REVIEWS', publisher 'DE GRUYTER POLAND SP Z O O', and a Journal Impact Factor of 6.1 for 2024 and 6.7 for the five-year average. Below this is a table of JCR Categories and their ranks and quartiles.

JCR Category	Category Rank	Category Quartile
CHEMISTRY, MULTIDISCIPLINARY <i>in SCIE edition</i>	52/239	Q1
MATERIALS SCIENCE, MULTIDISCIPLINARY <i>in SCIE edition</i>	125/460	Q2
NANOSCIENCE & NANOTECHNOLOGY <i>in SCIE edition</i>	45/147	Q2
PHYSICS, APPLIED <i>in SCIE edition</i>	40/187	Q1

14. Shah, Z. H., Asghar, A., Ying, T. Y., Lund, L. A., Alshehri, A., **Vrinceanu, N.** (2024). Numerical investigation of sodium alginate-alumina/copper radiative hybrid nanofluid flow over a power law stretching/shrinking sheet with suction effect: A study of dual solutions. *Results in Engineering*, 21, 101235. <https://doi.org/10.1016/j.rineng.2024.101235>, (FI₂₀₂₄=7.9), WOS:001183777300001 **Author correspondenta**

The screenshot shows a web browser with two windows. The main window displays the article page for 'Numerical investigation of sodium alginate-alumina/copper radiative hybrid nanofluid flow over a power law stretching/shrinking sheet with suction effect: A study of dual solutions' by Shah, ZH, Asghar, A, Ying, TY, Alshehri, A, and Vrinceanu, N. The article is published in *RESULTS IN ENGINEERING*, Volume 21, March 2024. The DOI is 10.1016/j.rineng.2024.101235. The article number is 101881. The document type is 'Article'. A 'Journal information' pop-up window is overlaid on the right side of the browser. It shows the journal name 'RESULTS IN ENGINEERING', publisher 'ELSEVIER', and a Journal Impact Factor of 7.9 for 2024 and 7.4 for the five-year average. Below this is a table of JCR Categories and their ranks and quartiles.

JCR Category	Category Rank	Category Quartile
ENGINEERING, MULTIDISCIPLINARY <i>in ESCI edition</i>	6/175	Q1

Wahana

15. Sheikholeslami, M., Shah, Z. H., Saeed, A., **Vrinceanu, N.**, Suliman, M. (2024). Numerical simulation and irreversibility analysis of nanofluid flow within a solar absorber duct equipped with a novel turbulator. *Results in Physics*, 56, 107271. <https://doi.org/10.1016/j.rinp.2023.107271> (FI₂₀₂₄=4.6) WOS:001144135200001 **Author correspondent**

The screenshot displays a web browser window with multiple tabs. The active tab is titled 'Numerical simulation and irreversibility analysis of nanofluid flow within a solar absorber duct equipped with a novel turbulator'. The browser address bar shows the URL: <https://www.webofscience.com.z.e-nformation.ro/wos/woscc/full-record/WOS:001144135200001>. The main content area shows the article title and authors: Sheikholeslami, M. (Sheikholeslami, M.) [1], [2]; Shah, ZH (Shah, Zahir) [3]; Vrinceanu, N (Vrinceanu, Narcisa) [5]; Suliman, M (Suliman, M.) [6]. The source is identified as 'RESULTS IN PHYSICS', Volume: 56, DOI: 10.1016/j.rinp.2023.107271. The article number is 107271, published in JAN 2024, with early access on DEC 2023 and indexed on 2024-01-27. The document type is 'Article'. A 'Journal information' sidebar is open on the right, showing 'RESULTS IN PHYSICS' published by ELSEVIER. It lists the Journal Impact Factor™ for 2024 as 4.6 and the Five Year as 4.3. Below this, a table shows JCR Categories: MATERIALS SCIENCE, MULTIDISCIPLINARY in SCIE edition (Rank 159/460, Quartile Q2) and PHYSICS, MULTIDISCIPLINARY in SCIE edition (Rank 23/114, Quartile Q1). The Journal Citation Indicator™ for 2024 is 1.11 and for 2023 is 1.13. Another table shows JCI Categories: MATERIALS SCIENCE (Rank 106/462, Quartile Q1).

16. Khan, M. S., Shah, Z., Roman, M., Khan, W., **Vrinceanu, N.**, Alshehri, M. H. (2023). Entropy generation in magneto couple stress bionanofluid flow containing gyrotactic microorganisms towards a stagnation point on a stretching/shrinking sheet. *Scientific Reports*, 13(1), <https://doi.org/10.1038/s41598-023-48676-3> (FI₂₀₂₄=3.9) WOS:001201688200001 **Author correspondent**

The screenshot displays a web browser window with multiple tabs. The active tab is titled 'Entropy generation in magneto couple stress bionanofluid flow containing gyrotactic microorganisms towards a stagnation point on a stretching/shrinking sheet'. The browser address bar shows the URL: <https://www.webofscience.com.z.e-nformation.ro/wos/woscc/full-record/WOS:001201688200001>. The main content area shows the article title and authors: Khan, MS (Khan, Muhammad Salim) [1]; Shah, Z (Shah, Zahir) [1]; Roman, M (Roman, Mihail) [2]; Khan, W (Khan, Wariq) [2]; Vrinceanu, N (Vrinceanu, Narcisa) [1]; Alshehri, MH (Alshehri, M. H.) [1]. The source is identified as 'SCIENTIFIC REPORTS', Volume: 13, Issue: 1, DOI: 10.1038/s41598-023-48676-3. The article number is 21434, published in DEC 5 2023, with early access on 2024-04-30 and indexed on 2024-04-30. The document type is 'Article'. A 'Journal information' sidebar is open on the right, showing 'SCIENTIFIC REPORTS' published by NATURE PORTFOLIO. It lists the Journal Impact Factor™ for 2024 as 3.9 and the Five Year as 4.3. Below this, a table shows JCR Categories: MULTIDISCIPLINARY SCIENCES in SCIE edition (Rank 28/135, Quartile Q1). The Journal Citation Indicator™ for 2024 is 1.07 and for 2023 is 1.05. Another table shows JCI Categories: MULTIDISCIPLINARY SCIENCES in SCIE edition (Rank 24/135, Quartile Q1).

WVinceanu

17. Jameel, M., Shah, Z. H., Rooman, M., Alshehri, M. H., **Vrinceanu, N.** (2023). Entropy generation analysis on Darcy-Forchheimer Maxwell nanofluid flow past a porous stretching sheet with threshold Non-Fourier heat flux model and Joule heating. *Case Studies in Thermal Engineering*, 52, 103738. <https://doi.org/10.1016/j.csite.2023.103738> (FI₂₀₂₄=6.4) WOS:001119302700001 **Autor corespondenta**

The screenshot shows the Web of Science interface for the article mentioned in item 17. The article title is "Entropy generation analysis on Darcy-Forchheimer Maxwell nanofluid flow past a porous stretching sheet with threshold Non-Fourier heat flux model and Joule heating". The authors listed are Jameel, M. (Jameel, Muhammad), Shah, ZH (Shah, Zahir), Rooman, M. H. (Alshehri, Mansoor H.), Vrinceanu, N. (Vrinceanu, Narcisa). The source is "CASE STUDIES IN THERMAL ENGINEERING", Volume 52, Article Number 103738, published in DEC 2023. The Journal Impact Factor (JIF) for 2024 is 6.4, and the JIF for the five-year period is 6.2. The JCR Category is THERMODYNAMICS in SCIE edition, with a Category Rank of 6/79 and a Category Quartile of Q1. The Journal Citation Indicator (JCI) for 2024 is 1.31, and for 2023 it is 1.38. The JCI Category is THERMODYNAMICS in SCIE edition, with a Category Rank of 8/79 and a Category Quartile of Q1. The source is cited as "Journal Citation Reports 2024".

18. Dero, S., Fadhel, M. A., Shah, Z. H., Lund, L. A., **Vrinceanu, N.**, Dewidar, A. Z., Elansary, H. O. (2023). Multiple solutions of Hiemenz flow of CNTs hybrid base $C_2H_6O_2 + H_2O$ nanofluid and heat transfer over stretching/shrinking surface: Stability analysis. *Case Studies in Thermal Engineering*, 49, <https://doi.org/10.1016/j.csite.2023.103190> (FI₂₀₂₄=6.4) WOS:001034326400001 **Autor corespondenta**

The screenshot shows the Web of Science interface for the article mentioned in item 18. The article title is "Multiple solutions of Hiemenz flow of CNTs hybrid base $C_2H_6O_2 + H_2O$ nanofluid and heat transfer over stretching/shrinking surface: Stability analysis". The authors listed are Dero, S (Dero, Sumera), Fadhel, MA (Fadhel, Mustafa Abbas), Shah, Z (Liaquat Ali), Vrinceanu, N (Vrinceanu, Narcisa), Dewidar, AZ (Dewidar, Elansary, Hosam O). The source is "CASE STUDIES IN THERMAL ENGINEERING", Volume 49, Article Number 103190, published in SEP 2023. The Journal Impact Factor (JIF) for 2024 is 6.4, and the JIF for the five-year period is 6.2. The JCR Category is THERMODYNAMICS in SCIE edition, with a Category Rank of 6/79 and a Category Quartile of Q1. The Journal Citation Indicator (JCI) for 2024 is 1.31, and for 2023 it is 1.38. The JCI Category is THERMODYNAMICS in SCIE edition, with a Category Rank of 8/79 and a Category Quartile of Q1. The source is cited as "Journal Citation Reports 2024".

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19. Asghar, A., Vrinceanu, N., Ying, T. Y., Lund, L. A., Shah, Z., Tirth, V., **Vrinceanu N.** (2023). Dual solutions of convective rotating flow of three-dimensional hybrid nanofluid across the linear stretching/shrinking sheet. *Alexandria Engineering Journal*, 75, 297–312. <https://doi.org/10.1016/j.aej.2023.05.089> (FI₂₀₂₄=6.8) WOS:001016622200001 **Autor corespondenta**

The screenshot shows the journal information for Alexandria Engineering Journal on the Web of Science platform. The journal is published by Elsevier. The Journal Impact Factor (JIF) for 2024 is 6.8, and the five-year JIF is 6.1. The JCR Category is Engineering, Multidisciplinary in SCIE edition, with a Category Rank of 9/175 and a Category Quartile of Q1. The Journal Citation Indicator (JCI) for 2024 is 2.12, and the 2023 JCI is 2.3. The JCI Category is Engineering, Multidisciplinary in SCIE edition, with a Category Rank of 7/175 and a Category Quartile of Q1. The article title is "Dual solutions of convective rotating flow of three-dimensional hybrid nanofluid across the linear stretching/shrinking sheet".

JCR Category	Category Rank	Category Quartile
ENGINEERING, MULTIDISCIPLINARY in SCIE edition	9/175	Q1

JCI Category	Category Rank	Category Quartile
ENGINEERING, MULTIDISCIPLINARY in SCIE edition	7/175	Q1

20. Ali, F., Awais, M., Ali, A., **Vrinceanu, N.**, Shah, Z. H., Tirth, V. (2023). Intelligent computing with Levenberg-Marquardt artificial neural network for Carbon nanotubes-water between stretchable rotating disks. *Scientific Reports*, 13(1). <https://doi.org/10.1038/s41598-023-30936-x> (FI₂₀₂₄=3.9) WOS:000985158100012 **Autor corespondenta**

The screenshot shows the journal information for Scientific Reports on the Web of Science platform. The journal is published by Nature Portfolio. The Journal Impact Factor (JIF) for 2024 is 3.9, and the five-year JIF is 4.3. The JCR Category is Multidisciplinary Sciences in SCIE edition, with a Category Rank of 25/135 and a Category Quartile of Q1. The Journal Citation Indicator (JCI) for 2024 is 1.07, and the 2023 JCI is 1.05. The JCI Category is Multidisciplinary Sciences in SCIE edition, with a Category Rank of 24/135 and a Category Quartile of Q1. The article title is "Intelligent computing with Levenberg-Marquardt artificial neural network for Carbon nanotubes-water between stretchable rotating disks".

JCR Category	Category Rank	Category Quartile
MULTIDISCIPLINARY SCIENCES in SCIE edition	25/135	Q1

JCI Category	Category Rank	Category Quartile
MULTIDISCIPLINARY SCIENCES in SCIE edition	24/135	Q1

Winnaco

21. Asghar, A., Chandio, A. F., Shah, Z. H., **Vrinceanu, N.**, Deebani, W., Shutaywi, M., Lund, L. A. (2023). Magnetized mixed convection hybrid nanofluid with effect of heat generation/absorption and velocity slip condition. *Heliyon*, 9(2), <https://doi.org/10.1016/j.heliyon.2023.e13189> (FI₂₀₂₄=3.6) WOS:000968543100001 **Autor corespondenta**

The screenshot shows the journal information for the article. The journal is Heliyon, published by Cell Press. The Journal Impact Factor for 2024 is 3.6, and the five-year average is 3.9. The JCR category is Multidisciplinary Sciences, with a category rank of 29/135 and a category quartile of Q1. The Journal Citation Indicator for 2024 is 0.84, and for 2023 it is 0.82. The JCI category is also Multidisciplinary Sciences, with a category rank of 39/135 and a category quartile of Q2. The source is cited as Journal Citation Reports 2024.

22. Khan, M. S., Ahmad, S., Shah, Z., Alshehri, A., **Vrinceanu, N.**, AL Garalleh, H. (2024). Computational study of double diffusive MHD natural convection flow of non-Newtonian fluid between concentric cylinders. *Results in Engineering*, 21, <https://doi.org/10.1016/j.rineng.2024.101925> (IF₂₀₂₄ = 7.9) WOS:001204028600001 **Autor corespondenta**

The screenshot shows the journal information for the article. The journal is Results in Engineering, published by Elsevier. The Journal Impact Factor for 2024 is 7.9, and the five-year average is 7.4. The JCR category is Engineering, Multidisciplinary, with a category rank of 6/175 and a category quartile of Q1. The Journal Citation Indicator for 2024 is 2.15, and for 2023 it is 1.87. The JCI category is also Engineering, Multidisciplinary, with a category rank of 6/175 and a category quartile of Q1. The source is cited as Journal Citation Reports 2024.

Wahid

23. Rooman, M., Shafiq, A., Shah, Z., **Vrinceanu, N.**, Deebani, W., Shutaywi, M. (2022). Statistical modeling for Ree-Eyring nanofluid flow in a conical gap between porous rotating surfaces with entropy generation and Hall Effect. *Scientific Reports*, 12(1). <https://doi.org/10.1038/s41598-022-25136-y> (FI₂₀₂₄=3.9) WOS:000905463900026 **Autor corespondenta**

The screenshot shows the Web of Science interface for the article 'Statistical modeling for Ree-Eyring nanofluid flow in a conical gap between porous rotating surfaces with entropy generation and Hall Effect'. The journal information panel on the right displays the following data:

SCIENTIFIC REPORTS		
Publisher name: NATURE PORTFOLIO		
Journal Impact Factor™		
3.9	4.3	
2024	Five Year	
JCR Category	Category Rank	Category Quartile
MULTIDISCIPLINARY SCIENCES in SCIE edition	25/135	Q1
Source: Journal Citation Reports 2024. Learn more		
Journal Citation Indicator™		
1.07	1.05	
2024	2023	
JCI Category	Category Rank	Category Quartile
MULTIDISCIPLINARY SCIENCES in SCIE edition	24/135	Q1

24. Hussain, S., Rasheed, K., Ali, A., **Vrinceanu, N.**, Alshehri, A., Shah, Z. (2022). A sensitivity analysis of MHD nanofluid flow across an exponentially stretched surface with non-uniform heat flux by response surface methodology. *Scientific Reports*, 12(1). <https://doi.org/10.1038/s41598-022-22970-y> (FI₂₀₂₄=3.9) WOS:000878306800039 **Autor corespondenta**

The screenshot shows the Web of Science interface for the article 'A sensitivity analysis of MHD nanofluid flow across an exponentially stretched surface with non-uniform heat flux by response surface methodology'. The journal information panel on the right displays the following data:

SCIENTIFIC REPORTS		
Publisher name: NATURE PORTFOLIO		
Journal Impact Factor™		
3.9	4.3	
2024	Five Year	
JCR Category	Category Rank	Category Quartile
MULTIDISCIPLINARY SCIENCES in SCIE edition	25/135	Q1
Source: Journal Citation Reports 2024. Learn more		
Journal Citation Indicator™		
1.07	1.05	
2024	2023	
JCI Category	Category Rank	Category Quartile
MULTIDISCIPLINARY SCIENCES in SCIE edition	24/135	Q1

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25. Pop, D.N., **Vrinceanu, N.**, Al-Omari, S., Ouerfelli, N., Baleanu, D., Nisar, K.S. (2021). On the solution of a parabolic PDE involving a gas flow through a semi-infinite porous medium. *Results in Physics*, 22, <https://doi.org/10.1016/j.rinp.2021.103884> (FI₂₀₂₄=4.6) WOS:000630406800032 **Autor corespondenta**

Journal information

RESULTS IN PHYSICS
Publisher name: ELSEVIER

Journal Impact Factor™
4.6 (2024) 4.3 (Five Year)

JCR Category	Category Rank	Category Quartile
MATERIALS SCIENCE, MULTIDISCIPLINARY <i>in SCIE edition</i>	159/460	Q2
PHYSICS, MULTIDISCIPLINARY <i>in SCIE edition</i>	23/114	Q1

Source: Journal Citation Reports 2024. [Learn more](#)

Journal Citation Indicator™
1.11 (2024) 1.13 (2023)

JCI Category	Category Rank	Category Quartile
MATERIALS SCIENCE, <i>in SCIE edition</i>	106/462	Q1

26. Shah, Z., Rooman, M., Asif Jan, M., **Vrinceanu, N.**, Bou, S. F. (2022). Radiative Darcy–Forchheimer micropolar Bödewadt flow of CNTs with viscous dissipation effect. *Journal of Petroleum Science and Engineering*, 217, <https://doi.org/10.1016/j.petrol.2022.109118> (FI₂₀₂₄=2) WOS:000853040100005 **Autor corespondenta**

Journal information

JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING
Publisher name: ELSEVIER

Journal Impact Factor™
4.7 (2023) 4.6 (Five Year)

JCR Category	Category Rank	Category Quartile
ENERGY & FUELS <i>in SCIE edition</i>	77/171	Q2
ENGINEERING, PETROLEUM <i>in SCIE edition</i>	4/24	Q1

Source: Journal Citation Reports 2023. [Go to Journal Citation Reports](#)

Journal Citation Indicator™
1.08 (2023) 1.1 (2022)

JCI Category	Category Rank	Category Quartile
ENERGY & FUELS <i>in SCIE edition</i>	53/174	Q2

WVma

**Numărul de articole în reviste WoS la care autorul este autor principal, NP
NP ≥ 20; NP realizat = 56**

Nr.crt.	Articol
1	Ullah, W; Shah, ZH; Sulaiman, M; Alshehri, MH; Antonescu, E; Vrinceanu, N (2025). Fractal flow model for Darcy–Forchheimer couple stress cluster interfacial nanolayer magnetized metallic nanofluid flow through a porous channel. <i>Fractals: Complex Geometry, Patterns and Scaling in Nature and Society</i> . https://doi.org/10.1016/j.aej.2025.03.126 , WOS:001565376800001
2	Zeb, M., Awais, M., Waheed, A., Shah, Z., Vrinceanu, N., Antonescu, E. (2025). Intelligent framework for dual solutions of copper oxide nanoparticles suspension in thermally varied fluid reservoirs using the Koo–Kleinstreuer–Li (KKL) Model. <i>Alexandria Engineering Journal</i> , 124, 435–445. https://doi.org/10.1016/j.aej.2025.03.126 WOS: 001465287200001
3	Jameel, M., Shah, Z. H., Rooman, M., Alshehri, M. H., Vrinceanu, N., Antonescu, E. (2024). Entropy driven optimization of non-linear radiative chemically reactive Sutterby nanofluid flow in presence of gyrotactic micro-organism with Hall effect and activation energy. <i>Scientific Reports</i> , 14, https://doi.org/10.1038/s41598-024-81932-8 WOS: 001372606600028
4	Zaman, T., Shah, Z. H., Rooman, M., Khan, W., Alshehri, M. H., Vrinceanu, N. (2024). Rheological analysis of magnetized trihybrid nanofluid drug carriers in unsteady blood flow through a single-stenotic artery. <i>Chinese Journal of Physics</i> , 91, 538–559. https://doi.org/10.1016/j.cjph.2024.08.002 WOS 001297613700001
5	Khan, M. S., Shah, Z. H., Rooman, M., AL Garalleh, H., Vrinceanu, N., Khan, W. (2024). Rayleigh-Benard convection and sensitivity analysis of magnetized couple stress water conveying bionanofluid flow with thermal diffusivities effect. <i>Results in Engineering</i> . 23 DOI https://doi.org/10.1016/j.rineng.2024.102652 WOS: 001288679700001
6	Panda, S., Shamshuddin, M., Pattnaik, P. K., Mishra, S. R., Shah, Z. H., Alshehri, M. H., Vrinceanu, N. (2024). Ferromagnetic effect on Casson nanofluid flow and transport phenomena across a bi-directional Riga sensor device: Darcy–Forchheimer model. <i>Nanotechnology Reviews</i> , 13(1), https://doi.org/10.1515/ntrev-2024-0021 WOS: 001250670200001
7	Raza, J., Mustafa, F., Lund, L. A., Shah, Z. H., Alshehri, M. H., Vrinceanu, N. (2024). Optimization of heat transfer rate of trihybrid nanofluid embedded between two horizontal coaxial cylinders by RSM. <i>Case Studies in Thermal Engineering</i> , 60, https://doi.org/10.1016/j.csite.2024.104637 WOS: 001258282700001
8	Soomro, A. M., Fadhel, M. A., Lund, L. A., Shah, Z., Alshehri, M. H., Vrinceanu, N. (2024). Dual solutions of magnetized radiative flow of Casson Nanofluid over a stretching/shrinking cylinder: Stability analysis. <i>Heliyon</i> , 10(8), https://doi.org/10.1016/j.heliyon.2024.e29696 WOS: 001233374400001
9	Khan, M. S., Ahmad, S., Shah, Z. H., Vrinceanu, N., Alshehri, M. H. (2024). Natural convection heat transfer of a hybrid nanofluid in a permeable quadrantal enclosure with heat generation. <i>Case Studies in Thermal Engineering</i> , 56, https://doi.org/10.1016/j.csite.2024.104207 WOS:001209098600001
10	Khan, M. S., Ahmad, S., Al Garalleh, H., Vrinceanu N. (2024). Computational study of double diffusive MHD natural convection flow of non-Newtonian fluid between concentric cylinders. <i>Results in Engineering</i> , 21, https://doi.org/10.1016/j.rineng.2024.101925 WOS 001204028600001
11	Shah, Z. H., Sulaiman, M., Alshehri, M. H., Vrinceanu, N., (2024). Gyrotactic microorganism's and heat transfer analysis of water conveying MHD SWCNT nanoparticles using fourth-grade fluid model over Riga plate. <i>Case Studies in Thermal Engineering</i> , 55, https://doi.org/10.1016/j.csite.2024.104119 WOS:001198726700001
12	Fadhel, M. A., Asghar, A., Lund, L. A., Shah, Z. H., Vrinceanu, N., Tirth, V. (2024). Dual numerical solutions of Casson SA-hybrid nanofluid toward a stagnation point flow over stretching/shrinking cylinder. <i>Nanotechnology Reviews</i> , 13(1). https://doi.org/10.1515/ntrev-2023-0191 WOS:001162198300001

13	Shah, Z. H., Asghar, A., Ying, T. Y., Lund, L. A., Alshehri, A., Vrinceanu, N. (2024). Numerical investigation of sodium alginate-alumina/copper radiative hybrid nanofluid flow over a power law stretching/shrinking sheet with suction effect: A study of dual solutions. <i>Results in Engineering</i> , 21, https://doi.org/10.1016/j.rineng.2024.101235 WOS:001183777300001
14	Sheikholeslami, M., Shah, Z. H., Saeed, A., Vrinceanu, N., Suliman, M. (2024). Numerical simulation and irreversibility analysis of nanofluid flow within a solar absorber duct equipped with a novel turbulator. <i>Results in Physics</i> , 56, https://doi.org/10.1016/j.rinp.2023.107271 WOS:001144135200001
15	Khan, M. S., Shah, Z., Roman, M., Khan, W., Vrinceanu, N., Alshehri, M. H. (2023). Entropy generation in magneto couple stress bionanofluid flow containing gyrotactic microorganisms towards a stagnation point on a stretching/shrinking sheet. <i>Scientific Reports</i> , 13(1), https://doi.org/10.1038/s41598-023-48676-3 WOS:001201688200001
16	Jameel, M., Shah, Z. H., Rooman, M., Alshehri, M. H., Vrinceanu, N. (2023). Entropy generation analysis on Darcy-Forchheimer Maxwell nanofluid flow past a porous stretching sheet with threshold Non-Fourier heat flux model and Joule heating. <i>Case Studies in Thermal Engineering</i> , 52, https://doi.org/10.1016/j.csite.2023.103738 WOS:001119302700001
17	Asghar, A., Vrinceanu, N., Ying, T. Y., Lund, L. A., Shah, Z., Tirth, V., Vrinceanu N. (2023). Dual solutions of convective rotating flow of three-dimensional hybrid nanofluid across the linear stretching/shrinking sheet. <i>Alexandria Engineering Journal</i> , 75, 297–312, https://doi.org/10.1016/j.aej.2023.05.089 WOS:001016622200001
18	Ali, F., Awais, M., Ali, A., Vrinceanu, N., Shah, Z. H., Tirth, V. (2023). Intelligent computing with Levenberg-Marquardt artificial neural network for Carbon nanotubes-water between stretchable rotating disks. <i>Scientific Reports</i> , 13(1) https://doi.org/10.1038/s41598-023-30936-x WOS:000985158100012
19	Asghar, A., Chandio, A. F., Shah, Z. H., Vrinceanu, N., Deebani, W., Shutaywi, M., Lund, L. A. (2023). Magnetized mixed convection hybrid nanofluid with effect of heat generation/absorption and velocity slip condition. <i>Heliyon</i> , https://doi.org/10.1016/j.heliyon.2023.e13189 WOS:000968543100001
20	Khan, M. S., Ahmad, S., Shah, Z., Alshehri, A., Vrinceanu, N., & AL Garalleh, H. (2024). Computational study of double diffusive MHD natural convection flow of non-Newtonian fluid between concentric cylinders. <i>Results in Engineering</i> , 21, https://doi.org/10.1016/j.rineng.2024.101925 WOS:001204028600001
21	Hussain, S., Rasheed, K., Ali, A., Vrinceanu, N., Alshehri, A., Shah, Z. (2022). A sensitivity analysis of MHD nanofluid flow across an exponentially stretched surface with non-uniform heat flux by response surface methodology. <i>Scientific Reports</i> , 12(1) https://doi.org/10.1038/s41598-022-22970-y WOS:000878306800039
22	Shah, Z., Rooman, M., Jan, M.A., Vrinceanu, N., Deebani, W., Shutaywi, M., Bou, S.F. (2022). Radiative Darcy-Forchheimer Micropler Bodewadt flow of CNTs with viscous dissipation effect. <i>Journal of Petroleum Science and Engineering</i> , 217, https://doi.org/10.1016/j.petrol.2022.109118 WOS:000853040100005
23	Pop, D.N., Vrinceanu, N., Al-Omari, S., Ouerfelli, N., Baleanu, D., Nisar, K.S. (2021). On the solution of a parabolic PDE involving a gas flow through a semi-infinite porous medium. <i>Results in Physics</i> , 22, https://doi.org/10.1016/j.rinp.2021.103884 WOS:000630406800032
24	Sohail, S., Shah, Z.H., Rooman, M., Khan, W., Alshehri, M.H., Vrinceanu, N., Antonescu, E. (2025). Computational modeling and thermal analysis of magnetized nanofluid flow with physio-chemical interaction and chemical reaction between two non-parallel walls. <i>Frontiers in Chemistry</i> , 13, https://doi.org/10.3389/fchem.2025.1466356 WOS:001498898500001
25	Shutaywi, M., Raza, J., Abualnaja, K.M., Shah, Z., Vrinceanu, N., Deebani, W. (2025), Integrated Taguchi-GRA-PCA for optimizing the heat transfer performance of trihybrid Casson nanofluid flow over stretching sheet with quadratic velocity. <i>Journal of Radiation Research and Applied Sciences</i> , 18(3), https://doi.org/10.1016/j.jrras.2025.103157 WOS:001490460900001
26	Nazneen, Y., Rooman, M., Shah, Z.H., Alshehri, M.H., Vrinceanu, N. (2024). Unsteady magnetized Ree-Eyring radiative hybrid nanofluid flow over a permeable biaxial shrinking sheet with Cattaneo-Christov heat flux effect. <i>Journal of Radiation Research and Applied Sciences</i> , 18(1), https://doi.org/10.1016/j.jrras.2024.100471 WOS:001400386200001

27	Deebani, W., Fadhel, M.A., Lund, L.A., Shah, Z., Vrinceanu, N., Shutaywi, M. (2024). Investigating the interplay between duality and stability in magnetized radiative mixed convection of Casson nanofluid flow over a stretching/shrinking cylinder. <i>Journal of Radiation Research and Applied Sciences</i> , 18(1) https://doi.org/10.1016/j.jrras.2025.1267 WOS:001402513900001
28	Shamshuddin, M., Shah, Z.H., Usman, A., Saeed, A., Alshehri, M.H., Vrinceanu, N., Antonescu, E. (2024). Investigation of convective heat transport in a Carreau hybrid nanofluid between two stretchable rotatory disks. <i>Open Physics</i> , 22(1) https://doi.org/10.1515/phys-2024-0416 WOS:001347035000001
29	Ouerfelli, N., Vrinceanu, N., Mliki, E., Amin, K. A., Snoussi, L., Coman, D., Mrabet, D. (2024). Rheological behavior of the synovial fluid: a mathematical challenge. <i>Frontiers in Materials</i> , 11 https://doi.org/10.3389/fmats.2024.1386694 WOS:001293760300001
30	Deebani, W., Shah, Z., Rooman, M., Khan, N. U., Vrinceanu, N., Shutaywi, M. (2024). Computational modelling of micropolar blood-based magnetised hybrid nanofluid flow over a porous curved surface in the presence of artificial bacteria. <i>Frontiers in Chemistry</i> , 12 https://doi.org/10.3389/fchem.2024.1397066 WOS:001250498600001
31	Sheikholeslami, M., Shah, Z. H., Saeed, A., Vrinceanu, N., Suliman, M. (2023). Numerical simulation and irreversibility analysis of nanofluid flow within a solar absorber duct equipped with a novel turbulator. <i>Results in Physics</i> , 56 https://doi.org/10.1016/j.rinp.2023.107271 WOS:001144135200001
32	Tang, T.-Q., Shah, Z. H., Thumma, T., Rooman, M., Vrinceanu, N., Alshehri, M. H. (2023). Response surface optimization and sensitivity analysis on biomagnetic blood Carreau nanofluid flow in stenotic artery with motile gyrotactic microorganisms. <i>SN Applied Sciences</i> , 5(12). https://doi.org/10.1007/s42452-023-05576-5 WOS:001119627500002
33	Deebani, W., Rooman, M., Vrinceanu, N., Shah, Z. H., Shutaywi, M., Jeli, R. A. A. (2023). Computational analysis and biomechanical study of Oldroyd-B fluid with homogeneous and heterogeneous reactions through a vertical non-uniform channel. <i>Open Physics</i> , 21(1). https://doi.org/10.1515/phys-2022-0241 WOS:001037121900001
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35	Lund, L. A., Chandio, A. F., Vrinceanu, N., Yashkun, U., Shah, Z. H., Alshehri, A. (2023). Darcy-Forchheimer magnetized nanofluid flow along with heating and dissipation effects over a shrinking exponential sheet with stability analysis. <i>Micromachines</i> , 14(1), https://doi.org/10.3390/mi14010106 WOS:000916174800001
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Total 56

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Factor de impact cumulativ, FIC ≥ 30 ; FIC realizat = 214.033

Nr.crt.	Articol	FI ₂₀₂₄
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37	Sheikholeslami, M., Shah, Z. H., Saeed, A., Vrinceanu, N., Suliman, M. (2023). Numerical simulation and irreversibility analysis of nanofluid flow within a solar absorber duct equipped with a novel turbulator. <i>Results in Physics</i> , 56 https://doi.org/10.1016/j.rinp.2023.107271 WOS:001144135200001	4.6
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