

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
FACULTATEA DE INGINERIE CHIMICĂ ȘI PROTECȚIA MEDIULUI "CRISTOFOR SIMIONESCU"
DEPARTAMENTUL DE INGINERIE CHIMICĂ

Concurs pentru ocuparea postului de ____Conferențiar____, poz. ____9__

Disciplinele postului: Ingineria proceselor fizice

Fenomene de transfer și operații unitare 1

Fenomene de transfer și operații unitare - proiect

FIȘA DE VERIFICARE
a îndeplinirii standardelor minime naționale de prezentare la concurs pentru postul de
conferențiar universitar

publicat în Monitorul Oficial al României partea a III-a nr. _395_ din data de 28/11/2024

Candidat: **IACOB TUDOSE EUGENIA TEODORA** / Data nașterii: **29/11/1968** Funcția actuală: **ȘEF LUCR.**, Data numirii în funcția actuală: **01/03/2003** Instituția: Universitatea Tehnică "Gheorghe Asachi" din Iași.

Comisia: INGINERIE CHIMICĂ, INGINERIE MEDICALĂ, ȘTIINȚA MATERIALELOR ȘI NANOMATERIALELOR
a) NTOP≥2 (numărul total de articole în reviste ISI situate în top 25%, zona roșie, în calitate de autor principal)

Referința bibliografică	Numărul publicației
E.T.Iacob Tudose , I.Mămăligă, A.V. Iosub - TES Nanoemulsions: A Review of Thermophysical Properties and Their Impact on System Design. <i>Nanomaterials</i> , 11, 3415, 2021. https://doi.org/10.3390/nano11123415 .	1
I. Mămăligă, D. Sidor, C Condurat, E.T.Iacob Tudose -Hydrodynamics and mass transfer coefficients for a modified Raschig ring packed column, <i>Heat and Mass Transfer</i> , vol.50, p.1385-1392, 2014.	2
E.T.Tudose ,M. Kawaji, Experimental investigation of Taylor bubble acceleration mechanism in slug flow, <i>Chemical Engineering Science</i> , v.54, p.5761-5775, 1999.	3

b) Verificarea îndeplinirii standardului NP≥10 (număr articole în reviste ISI în care candidatul este autor principal/corespondent)

Referința bibliografică	Numărul publicației
E.T.Iacob Tudose , Two-phase flow in a Sulzer column, <i>Studia UBB Chemia</i> , LXVIII, 2, 2023, p.169-184. DOI:10.24193/subbchem.2023.2.11	1
E.T.Iacob Tudose , C.Zaharia, N.Melniciuc-Puica, Reduction of water color in a spinning disc reactor, <i>Applied Sciences</i> , 12(20), 2022. 10.3390/app122010253 (Q2)	2
E.T. Iacob Tudose , I. Mamaliga, I., A.V. Iosub - TES Nanoemulsions: A Review of Thermophysical Properties and Their Impact on System Design. <i>Nanomaterials</i> 2021, 11, 3415. https://doi.org/10.3390/nano11123415 . (Q1)	3
C.Zaharia, F Leon, S Curteanu, E.T. Iacob Tudose - Textile wastewater treatment in a spinning disc reactor: improved performances, modeling and SVM optimization, <i>Processes</i> 2021, 9(11), 2003; https://doi.org/10.3390/pr9112003 (Q2)	4
E.T. Iacob Tudose - An experimental study on spinning disc key parameters influencing its performance, <i>Studia UBB Chemia</i> 2021, 66 (4),297-308. DOI:10.24193/subbchem.2021.4.22	5
E.T.Iacob Tudose , C.Zaharia - Textile wastewater treatment on a spinning disc reactor: characteristics, performances and empirical modeling, <i>Applied Sciences</i> , 10(23), 8687-8704, 2020. (Q2)	6
M.Popa, E.T.Iacob Tudose , I.Mamaliga – Mass transfer in solid-liquid extraction at high solute concentrations, <i>Environmental Engineering and Management Journal</i> ,vol. 17, No. 4, 755-1020, 2018	7
M.Popa, I.Mămăligă, S.Petrescu. E.T.Iacob Tudose – Axial dispersion study in fixed bed columns, <i>Revista de Chimie</i> , no.3, vol.66, p. 668-672, (2015).	8
E.T. Iacob Tudose , E.David, M.S. Secula, I. Mămăligă-Adsorption equilibrium and effective diffusivity in cylindrical alumina particles impregnated with calcium chloride, <i>Environmental Engineering and Management Journal</i> , vol. 14, no.3, p.503-508, (2015).	9
Ioan Mămăligă, Doru Sidor, C Condurat, E.Iacob Tudose -Hydrodynamics and mass transfer coefficients for a modified Raschig ring packed column, <i>Heat and Mass Transfer</i> , vol.50, p.1385-1392, (2014). (Q1)	10
Iacob Tudose E.T. , Studiul influenței excentricității bulei Taylor asupra vitezei de deplasare în curgerea bifazică de tip slug, <i>Revista de chimie</i> , vol 58, no.11,p.1000-1003, (2007).	11
Tudose E.T. , Slug flow – radial displacement in the Taylor bubble acceleration mechanism, <i>Revue Roumain de Chimie</i> , vol.49, no.3-4, pg. 399-406, (2004).	12
Tudose E.T. , Kawaji M., Experimental investigation of Taylor bubble acceleration mechanism in slug flow, <i>Chemical Engineering Science</i> , v.54, p.5761-5775, (1999). (Q1)	13

Tudose E.T. On the modeling of solid materials drying in fixed beds. I. Drying with a thermal gas agent, Revue Roumaine de Chimie, v.40 (7-8), p.791-803, (1995).	14
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c) Verificarea îndeplinirii standardului FIC \geq 15 (factor de impact cumulat)

Nr.crt.	Referința bibliografică	FI	ni	FI/ni
1	A.M.Asoltanei, ET Iacob-Tudose , MS Secula, I Mamaliga, Mathematical models for estimating diffusion coefficients in concentrated polymer solutions from experimental data, Processes, 12(6), 2024. 10.3390/pr12061266 (Q2)	2,8	4	0,7
2	I Barabulica, MS Secula, AM Asoltanei, ET Iacob-Tudose , G.Lisa, Experimental Study on the Reaction of Magnesium in Carbon Dioxide and Nitrogen Atmosphere, ChemEngineering 8 (2), 41, 2024. (Q2)	2,5	5	0,5
3	E.T.Iacob Tudose , Two-phase flow in a Sulzer column, Studia UBB Chemia, LXVIII, 2, 2023, p.169-184. DOI:10.24193/subbchem.2023.2.11	0,3	1	0,3
4	E.T.Iacob Tudose , C.Zaharia, N.Melniciuc-Puica, Reduction of water color in a spinning disc reactor, Applied Sciences, 12(20), 2022. 10.3390/app122010253 (Q2)	2,838	3	2,838
5	E.T. Iacob Tudose , I. Mamaliga, I., A.V. Iosub - TES Nanoemulsions: A Review of Thermophysical Properties and Their Impact on System Design. <i>Nanomaterials</i> 2021, 11, 3415.(Q1)	5,719	3	5,719
6	C.Zaharia, F Leon, S Curteanu, E.T. Iacob Tudose - Textile wastewater treatment in a spinning disc reactor: improved performances, modeling and SVM optimization, <i>Processes</i> 2021, 9(11), 2003; https://doi.org/10.3390/pr9112003 (Q2)	2,847	4	2,847
7	E.T. Iacob Tudose - An experimental study on spinning disc key parameters influencing its performance, Studia UBB Chemia 2021, 66 (4),297-308. DOI:10.24193/subbchem.2021.4.22	0,447	1	0,447
8	E.T.Iacob Tudose , C.Zaharia - Textile wastewater treatment on a spinning disc reactor: characteristics, performances and empirical modeling, Applied Sciences, 10(23), 8687-8704, 2020. (Q2)	2,679	2	2,679

9	M.Popa, E.T.Iacob Tudose , I.Mămăligă – Mass transfer in solid-liquid extraction at high solute concentrations, Environmental Engineering and Management Journal, vol. 17, No. 4, 755-1020, 2018.	1,334	3	0,444
10	M.Popa, I.Mămăligă, S.Petrescu. E.T.Iacob Tudose – Axial dispersion study in fixed bed columns, Revista de Chimie, no.3, vol.66, p. 668-672, 2015.	0,956	4	0,956
11	E.T. Iacob Tudose , E.David, M.S. Secula, I. Mămăligă-Adsorption equilibrium and effective diffusivity in cylindrical alumina particles impregnated with calcium chloride, Environmental Engineering and Management Journal, vol. 14, no.3, p.503-508, 2015.	1,065	1	1,065
12	Ioan Mămăligă, Doru Sidor, C Condurat, E.Iacob Tudose -Hydrodynamics and mass transfer coefficients for a modified Raschig ring packed column, Heat and Mass Transfer, vol.50, p.1385-1392, 2014.(Q1)	1,551	4	1,551
13	Ciprian Constantin Negoescu, Nicoleta Bunduc, E.T. Iacob Tudose , Ioan Mămăligă, Aspects on polymer-solvent equilibrium and diffusion in polymeric membranes, Environmental Engineering and Management Journal, vol.12, no.8, p.1583-1593, (2013).	1,258	4	0,314
14	Iacob Tudose E.T. , Studiul influenței excentricității bulei Taylor asupra vitezei de deplasare în curgerea bifazică de tip slug, Revista de chimie, vol.58, nr.11, p.1100-1103, (2007).	0,257	1	0,257
15	Tudose R., Iacob Tudose E.T. , Petrescu S., Effective Wood Diffusion Coefficients, Cellulose Chemistry and Technology, vol.40, no. 9-10, p.749-753, (2006).	0,857	3	0,285
16	Tudose E.T. , Slug flow – radial displacement in the Taylor bubble acceleration mechanism, Revue Roumain de Chimie, vol.49, no.3-4, pg. 399-406, (2004).	0,395	1	0,395
17	Tudose E.T. , Kawaji M., Experimental investigation of Taylor bubble acceleration mechanism in slug flow, Chemical Engineering Science, v.54, p.5761-5775, (1999). (Q1)	3,372	2	3,372
18	Kawaji M., DeJesus J.M., Tudose E.T. , Investigation of flow structures in vertical slug flow, Nuclear Engineering and Design, v.175, p.37-48, 1997. (Q1)	0,258	3	0,086
19	Petrescu S., Tudose E.T. , Delibaș C., Mass transfer accompanied by chemical reaction at sublimation, Hungarian Journal of Industrial Chemistry, v.25, p.185-189, (1997).	0,400	3	0,133
20	Tudose E.T. On the modeling of solid materials drying in fixed beds. I. Drying with a thermal gas agent, Revue Roumaine de Chimie, v.40 (7-8), p.791-803, (1995).	0,395	1	0,395
21	Tudose R.Z., Delibaș C., Tudose E.T. , Asandei D.A., Romanescu C., Bercu E., Rusu D., Uscător cu regimuri termice diferențiate, Brevet 110661 din 03.01.1996.	1	7	0,14

22	Tudose E.T. , Asandei D.A., Rusu D., Tudose R.Z., Delibaş C., Romanescu C., Coloană pentru extracție lichid-lichid, Brevet 110401 din 30.01.1996.	1	6	0,16
23	Asandei D.A., Tudose R.Z., Delibaş C., Rusu D., Romanescu C., Tudose E.T. , Coloană de separare prin extracție lichid-lichid, brevet 110402 din 30.01.1996.	1	6	0,16
24	Tudose E.T. , Tudose R.Z., Rusu D., Delibaş C., Romanescu C., Asandei D.A., Coloană mecanică pentru extracție lichid-lichid, Brevet 110403 din 30.01.1996.	1	6	0,16
25	Asandei D.A., Romanescu C., Tudose R.Z., Tudose E.T. , Rusu D., Delibaş C., Extractor mecanic cu contact diferențial, Brevet 110404 din 30.01.1996.	1	6	0,16
26	Tudose R.Z., Lisă C., Delibaş C., Tudose E.T. , Agitator pentru amestecarea intensivă a mediilor lichide, Dosar OSIM nr. 95-00413 din 24.02.1995.	1	3	0*
FIC=26,063				

d) Verificarea îndeplinirii standardului NC≥50 (număr total de citări din baza Web of Science 98, SCOPUS 113, Google Scholar 226)

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1. Kawaji M., DeJesus J.M., Tudose G. , Investigation of flow structures in vertical slug flow, Nuclear Engineering and Design, v.175, p.37-48, 1997.	1. Experimental and numerical study of characteristic parameters of Taylor bubble in vertical pipe under short-time gas injection By: Ren YF, Bai CQ and Zhang HY INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT&FLUID FLOW Vol. 34 Issue 12 pages 4306-4332 Published: Nov 2024 2. Critical review of vertical gas-liquid slug flow: An insight to better understand flow hydrodynamics' effect on heat and mass transfer characteristics By: Holagh, SG and Ahmed, WH INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER Vol:225 Published: Jun 2024 3. Transient simulation of oscillatory gas-liquid Taylor flow and its effects on heat transfer By: Tao, H; Zheng, ZY; et al. INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER Vol:222 Published: May 2024 4. Two-Phase Turbulent Kinetic Energy Budget Computation in Co-Current Taylor Bubble Flow By: Frederix, EMA; Tajfirooz, S; et al. NUCLEAR SCIENCE AND TECHNOLOGY Vol: 197 Pag: 2585-2601 Published: Feb 2023

	<p>5. Crystals and inclined conduits: analogue experiments for slug-driven volcanism By:Calleja, H and Pering, TD VOLCANICA Vol: 6 (1) , pp.147-160 Published:2023</p> <p>6. Computational fluid dynamics simulations of Taylor bubbles rising in vertical and inclined concentric annuli By:Liu, YX; Ozbayoglu, EM; (...); Baldino, S INTERNATIONAL JOURNAL OF MULTIPHASE FLOW, Vol:159 Art.nr: 104333 Published: Feb2023</p> <p>7. Numerical Investigation of the Effects of High Reynolds and Marangoni Numbers on Thermocapillary Droplet Migration By:Kalendar, A; Alhendal, Y; et al. MICROGRAVITY SCIENCE AND TECHNOLOGY Vol: 33 (2) Art nr:23 Published: Apr 2021</p> <p>8. Two-layer modeling of thermally induced Benard convection in thin liquid films: Volume of fluid approach vs thin-film model By:Mohammadtabar, A; Nazaripoor, H; et al. AIP ADVANCES, Vol:11 (4) Art.nr:045317 Published: Apr 1 2021</p> <p>9. Review on effect of two-phase interface morphology evolution on flow and heat transfer characteristics in confined channel By:Deng, J; Lu, Q; et al. HEAT AND MASS TRANSFER Vol: 57 (1) Pag:13-39 Published: Jan 2021</p> <p>10. LES of Turbulent Co-current Taylor Bubble Flow By:Frederix, EMA; Komen, EMJ; et al. FLOW TURBULENCE AND COMBUSTION Vol:105 (2) Pag:471-495 Published: Aug 2020</p> <p>11. A numerical study on bubble dynamics in sinusoidal channels By:Patel, T; Patel, D; et al. PHYSICS OF FLUIDS Vol:31 (5) Art.nr:052103 Published: May 2019</p> <p>12. Numerical study of an individual Taylor bubble rising through stagnant liquids under laminar flow regime By: Massoud, E. Z.; Xiao, Q.; El-Gamal, H. A.; et al. OCEAN ENGINEERING Volume: 162 Pages: 117-137 Published: AUG 15 2018</p>
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	<p>13. Numerical study of phase split characteristics of slug flow at a branching micro-T-junction By: Dong, Jianxin; Zhang, Xubin; Wang, Fumin; et al. ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING Volume: 13 Issue: 4 , Article Number: UNSP e2213 Published: JUL-AUG 2018</p> <p>14. A novel fuzzy-logic based method for determination of individual bubble velocity and size from dual-plane ultrafast X-ray tomography data of two-phase flow By: Banowski, Manuel; Patmonoaji, Anindityo; Lucas, Dirk; et al. INTERNATIONAL JOURNAL OF MULTIPHASE FLOW Volume: 96 Pages: 144-160 Published: NOV 2017</p> <p>15. Numerical modelling of the rise of Taylor bubbles through a change in pipe diameter By: Ambrose, Stephen; Lowndes, Ian S.; Hargreaves, David M.; et al. COMPUTERS & FLUIDS Volume: 148 Pages: 10-25 Published: APR 22 2017</p> <p>16. Wall effects on the thermocapillary migration of single gas bubbles in stagnant liquids By: Alhendal, Yousuf; Turan, Ali; Kalendar, Abdulrahim HEAT AND MASS TRANSFER Volume: 53 Issue: 4 Pages: 1315-1326 Published: APR 2017</p> <p>17. Thermocapillary Flow and Coalescences of Heterogeneous Bubble Size Diameter in a Rotating Cylinder: 3D Study By: Alhendal, Yousuf; Turan, Ali MICROGRAVITY SCIENCE AND TECHNOLOGY Volume: 28 Issue: 6 Pages: 639-650 Published: DEC 2016</p> <p>18. Taylor flow in intermediate diameter channels: Simulation and hydrodynamic models By: Rattner, Alexander S.; Garimella, Srinivas INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER Volume: 103 Pages: 1108-1124 Published: DEC 2016</p> <p>19. Review on vertical gas-liquid slug flow By: Morgado, A. O.; Miranda, J. M.; Araujo, J. D. P.; et al. INTERNATIONAL JOURNAL OF MULTIPHASE FLOW Volume: 85 Pages: 348-368 Published: OCT 2016</p> <p>20. Thermocapillary migration of an isolated droplet and interaction of two droplets in zero gravity By: Aihendal, Yousuf; Turan, Ali; Kalendar, Abdulrahirn ACTA ASTRONAUTICA Volume: 126 Special Issue: SI Pages: 265-274 Published: SEP-OCT 2016</p>
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By: Scammell, Alex; Kim, Jungho; Magnini, Mirco; et al.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER Volume: 99 Pages: 904-917
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22. Thermocapillary bubble flow and coalescence in a rotating cylinder: A 3D study
By: Alhendal, Yousuf; Turan, A.; Al-mazidi, M.
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23. Visual investigation on the interface morphology of Taylor bubble and the characteristics of two-phase flow in mini-channel
By: Lu, Qi; Chen, Deqi; Wang, Qinghua
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24. Thermocapillary bubble dynamics in a 2D axis swirl domain
By: Alhendal, Yousuf; Turan, Ali
HEAT AND MASS TRANSFER Volume: 51 Issue: 4 Pages: 529-542 Published: APR 2015
25. Characteristics of slug flow in a vertical narrow rectangular channel
By: Wang, Yang; Yan, Changqi; Sun, Licheng; et al.
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26. STUDY ON THE FLOW STRUCTURE AND ITS EFFECTS ON THE INTERACTION AND FORMATION OF CRYOGENIC TAYLOR BUBBLES BY PIV TECHNIQUE AND POD ANALYSIS
By: Liu, Yi-Peng; Wang, Ping-Yang; Zhao, Xian-Lin; et al.
CANADIAN JOURNAL OF CHEMICAL ENGINEERING Volume: 92 Issue: 2 Pages: 374-389
Published: FEB 2014
27. Simulation of slug flow systems under laminar regime: Hydrodynamics with individual and a pair of consecutive Taylor bubbles
By: Araujo, J. D. P.; Miranda, J. M.; Campos, J. B. L. M.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING Volume: 111 Pages: 1-14
Published: NOV 2013
28. Numerical simulation of the modulated flow pattern for vertical upflows by the phase separation concept
By: Chen, Qicheng; Xu, Jinliang; Sun, Dongliang; et al.
INTERNATIONAL JOURNAL OF MULTIPHASE FLOW Volume: 56 Pages: 105-118
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29. Thermocapillary simulation of single bubble dynamics in zero gravity
By: Alhendal, Yousuf; Turan, Ali; Hollingsworth, Peter
ACTA ASTRONAUTICA Volume: 88 Pages: 108-115 Published: JUL-AUG 2013
30. Characteristics of Slug Flow in Narrow Rectangular Channels Under Vertical Condition
By: Wang, Yang; Yan, Changqi; Sun, Licheng; et al.
Conference: 7th International Symposium on Multiphase Flow, Heat Mass Transfer and Energy

	<p>Conversion Location: Xian, PEOPLES R CHINA Date: OCT 26-30, 2012 Sponsor(s): Int Ctr Heat & Mass Transfer; Natl Nat Sci Fdn China; Minist Educ China; Int Assoc Hydrogen Energy; Chinese Soc Engr Thermophys; Xian Jiaotong Univ, State Key Lab Multiphase Flow Power Engr 7TH INTERNATIONAL SYMPOSIUM ON MULTIPHASE FLOW, HEAT MASS TRANSFER AND ENERGY CONVERSION Book Series: AIP Conference Proceedings Volume: 1547 Pages: 102-114 Published: 2013</p> <p>31. Experimental study on near wall transport characteristics of slug flow in a vertical pipe By: Yan, Kai; Zhang, Yubo; Che, Defu HEAT AND MASS TRANSFER Volume: 48 Issue: 7 Pages: 1193-1205 Published: JUL 2012</p> <p>32. Wide-ranging survey on the laminar flow of individual Taylor bubbles rising through stagnant Newtonian liquids By: Araujo, J. D. P.; Miranda, J. M.; Pinto, A. M. F. R.; et al. INTERNATIONAL JOURNAL OF MULTIPHASE FLOW Volume: 43 Pages: 131-148 Published: JUL 2012</p> <p>33. The effect of the VOF-CSF static contact angle boundary condition on the dynamics of sliding and bouncing ellipsoidal bubbles By: Senthilkumar, S.; Delaure, Y. M. C.; Murray, D. B.; et al. INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW Volume: 32 Issue: 5 Pages: 964-972 Published: OCT 2011</p> <p>34. Experimental Analysis on the Counter-Current Dumitrescu-Taylor Bubble Flow in a Smooth Vertical Conduct of Small Diameter By: Benattallah, S.; Aloui, F.; Souhar, M. JOURNAL OF APPLIED FLUID MECHANICS Volume: 4 Issue: 4 Pages: 1-14 Published: OCT 2011</p> <p>35. The effect of surface tension on phase distribution of two-phase flow in a micro-T-junction By: He, Kui; Wang, Shuangfeng; Huang, Jianzhen CHEMICAL ENGINEERING SCIENCE Volume: 66 Issue: 17 Pages: 3962-3968 Published: SEP 1 2011</p> <p>36. Hydrodynamic and mass transfer characteristics of slug flow in a vertical pipe with and without dispersed small bubbles By: Yan, Kai; Che, Defu INTERNATIONAL JOURNAL OF MULTIPHASE FLOW Volume: 37 Issue: 4 Pages: 299-325 Published: MAY 2011</p> <p>37. Numerical study of a Taylor bubble rising in stagnant liquids By: Kang, Chang-Wei; Quan, Shaoping; Lou, Jing PHYSICAL REVIEW E Volume: 81 Issue: 6 Article Number: 066308 Part: 2 Published: JUN 17 2010</p> <p>38. Slug flow in curved microreactors: Hydrodynamic study By: Kumar, Vimal; Vashisth, Subhashini; Hoarau, Yannick; et al.</p>
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	<p>Conference: 8th International Conference on Gas-Liquid and Gas-Liquid-Solid Reactor Engineering Location: Indian Inst Technol Delhi, New Delhi, INDIA Date: DEC 16-19, 2007 CHEMICAL ENGINEERING SCIENCE Volume: 62 Issue: 24 Special Issue: SI Pages: 7494-7504 Published: DEC 2007</p> <p>39. Effects of interfacial shear condition and trailing-corner radius on the wake vortex of a bubble By: Lertnuwat, Boonchai; Bunyajitradulya, Asi NUCLEAR ENGINEERING AND DESIGN Volume: 237 Issue: 14 Pages: 1526-1533 Published: AUG 2007</p> <p>40. Measurement of averaged liquid velocity field around large bubbles rising in stagnant water in round pipe using UVP By: Minagawa, Hisato; Fukazawa, Tsuyoshi; Nakazawa, Yoshiyuki; et al. JSME INTERNATIONAL JOURNAL SERIES B-FLUIDS AND THERMAL ENGINEERING Volume: 49 Issue: 4 Special Issue: SI Pages: 1173-1180 Published: NOV 2006</p> <p>41. CFD modelling of slug flow in vertical tubes By: Taha, T; Cui, ZF CHEMICAL ENGINEERING SCIENCE Volume: 61 Issue: 2 Pages: 676-687 Published: JAN 2006</p> <p>42. Two-phase slug flow across small diameter tubes with the presence of vertical return bend By: Wang, CC; Chen, IY; Huang, PS INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER Volume: 48 Issue: 11 Pages: 2342-2346 Published: MAY 2005</p> <p>43. A photochromic dye activation method for measuring the thickness of liquid films By: Kim, J; Kim, MH BULLETIN OF THE KOREAN CHEMICAL SOCIETY Volume: 26 Issue: 6 Pages: 966-970 Published: JUN 20 2005</p> <p>44. Liquid re-circulation in turbulent vertical pipe flow behind a cylindrical bluff body and a ventilated cavity attached to a sparger By: Sotiriadis, AA; Thorpe, RB CHEMICAL ENGINEERING SCIENCE Volume: 60 Issue: 4 Pages: 981-994 Published: FEB 2005</p> <p>45. Liquid recirculation and bubble breakup beneath ventilated gas cavities in downward pipe flow By: Thorpe, RB; Evans, GM; Zhang, K; et al. CHEMICAL ENGINEERING SCIENCE Volume: 56 Issue: 21-22 Pages: 6399-6409 Published: NOV 2001</p> <p>46. Computational fluid dynamics simulations of Taylor bubbles in tubular membranes - Model validation and application to Laminar flow systems By: Ndinisa, NV; Wiley, DE; Fletcher, DF CHEMICAL ENGINEERING RESEARCH & DESIGN Volume: 83 Issue: A1 Pages: 40-49 Published: JAN 2005</p>
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<p>2.Tudose E.T., Kawaji M., Experimental investigation of Taylor bubble acceleration mechanism in slug flow, Chemical Engineering Science, v.54, p.5761-5775, 1999</p>	<p>54. Critical review of vertical gas-liquid slug flow: An insight to better understand flow hydrodynamics' effect on heat and mass transfer characteristics By:Holagh S.G. and Ahmed W.H. INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, Vol.:225 Art.nr.:125422 Published:June 2024</p> <p>55. Periodic large-scale structural characteristics of two-phase flow in tight lattice bundles By:Yan X.,Xiao Y., et al. INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER Vol:213 Art.nr.:124331 Published: Oct 2023</p> <p>56. Viscoelastic effects of immiscible liquid-liquid displacement in microchannels with bends By:Hue S.H. and Angeli P.</p>

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e) NCO \geq 1 (număr contracte de cercetare-dezvoltare-inovare obținute prin competiție la nivel național, internațional)

(1) Director de grant CNCSIS în 2006-2007. “ Caracterizarea hidrodinamica a curgerii bifazice de tip slug (piston)-studiu analitic si experimental”, valoare totală=20000 roni

1. Contract GR 63/19.05.2006-tema nr.15, cod CNCSIS 277, valoare 11000 roni.

2. Contract GR 80/23.05.2007, valoare 9000 roni.

(2) Director grant TUIASI PI/GI33 – 2022, valoare 45000 roni.

(3) Grant CNCSIS nr.27637/14.03.2005 cod 422, tema 10 (director grant prof. dr. ing. D. Cașcaval). Membru în echipă

(4) Cercetări privind expertizarea stării de conservare a obiectelor de patrimoniu cultural prin tehnici modern nedestructive și obținerea/evaluarea de noi material pentru conservarea active în vederea asigurării viabilității comunitare-colab.PNII nr.92-084/2008 (perioada 2009-2011, director conf.dr.ing. R. Diaconescu). **Membru în echipă**

(5) Grant NSERC (CONSILIUL NATIONAL DE CERCETARE CANADA), 1995-1996, *Studiul experimental al structurilor de curgere în regim de tip slug*, (M.Sc. thesis), Universitatea din Toronto, Canada. **Membru în echipa de cercetare**

(6) Grant CSA (Agentia Spatiala Canadiana) 1999-2001, *Studiul experimental al instabilitatilor in curgerea termocapilara*, (Ph.D. thesis), Universitatea din Toronto, Canada. **Membru în echipa de cercetare**

Tabel centralizator **Standarde nationale minime**

Standarde minime impuse	Valori realizate
NTOP ≥ 2	3
NP ≥ 10	14
FIC ≥ 15	26,06
NC ≥ 50	96(WOS)/113(Scopus)
NCO ≥ 1	1

Data: 10.12.2024

Candidat: IACOB TUDOSE Eugenia Teodora

