

Professor Sanatan Das

Department of Mathematics

University of Gour Banga, Malda 732 103, West Bengal, India

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1. Personal

Father's Name : Late Gobardhan Chandra Das
Date of Birth : November 17, 1974
Nationality : Indian
Marital Status : Married and have One son and One daughter
Hobbies : Reading Science fiction, and walking

2. Education

| Degree | Board/ University | Year | Div./ Class | Remark |
|--------|-----------------------|------|-------------|--|
| MP | WBBSE. | 1992 | I | |
| HS | WBCHSE | 1994 | I | |
| BSc(H) | Vidyasagar University | 1997 | I | Rank- 3 |
| MSc | Vidyasagar University | 1999 | I | Rank- 3 |
| NET | CSIR | 2002 | CSIR | |
| PhD | Vidyasagar University | 2012 | | Thesis Title: Study of Some Fluid Dynamics Problems with or without Magnetic field |

3. Teaching Experience

| College / University | Designation | Date of Joining | Period |
|-----------------------------------|----------------------------------|-----------------|-------------------------|
| Charkaboni High School, Khargapur | Assistant Teacher | 28.12.2000 | 26.12.2000 - 15.05.2005 |
| Islampur College, Uttar Dinajpur | Lecturer/ Assistant Professor | 16.05.2005 | 16.05.2005- 07.12.2008 |
| University of Gour Banga, Malda | Assistant Professor | 08.12.2008 | 08.12.2008-30.11.2015 |
| University of Gour Banga, Malda | Associate Professor | 01.12.2015 | 01.12.2015- 30.11.2018 |
| University of Gour Banga, Malda | Professor | 01.12.2018 | 01.12.2018 to till date |

4. Ph.D. Supervision

Awarded 07
Registered 04

| | |
|--------------------------------|----|
| Under registration process | 03 |
| Total no. of research scholars | 14 |

5. Areas of Research interest

- Fluid Mechanics
- Bio-Fluid Mechanics
- Hemodynamics
- Electrokinetics
- Magneto-Nano Fluid Dynamics (MNFD)
- Magneto-Bio–Nano-Fluid Dynamics (MBNFD)
- Energy Systems Modelling
- Nanofluids/Hybrid Nanofluid Flow Modelling
- Bioheat Transfer Modelling
- Peristaltic Flow Modelling
- Heat Transport through Porous Media

6. Reviewing Services

- Colloids and Surfaces A: Physicochemical and Engineering Aspects, **Elsevier**
- Chemical Physics Letters, **Elsevier**
- Computers in Biology and Medicine, **Elsevier**
- International Communications in Heat and Mass Transfer, **Elsevier**
- Journal of Molecular Liquids, **Elsevier**
- Journal of Petroleum Science and Engineering, **Elsevier**
- Mathematics and Computers in Simulation, **Elsevier**
- Partial Differential Equations in Applied Mathematics, **Elsevier**
- Propulsion and Power Research, **Elsevier**
- Case Studies in Thermal Engineering, **Elsevier**
- Engineering Science and Technology, an International Journal, **Elsevier**
- Journal of Magnetism and Magnetic Materials, **Elsevier**
- Journal of the Taiwan Institute of Chemical Engineers, **Elsevier**
- International Journal of Exergy, **Elsevier**
- Computers and Fluids, **Elsevier**
- Results in Physics, **Elsevier**
- Journal of Thermal Science, **Springer**
- Arabian Journal for Science and Engineering, **Springer**
- Pramana - Journal of Physics, **Springer**
- International Journal of Applied and Computational Mathematics, **Springer**
- Iranian Journal of Science and Technology: Transaction of Mechanical Engineering, **Springer**

- Iranian Journal of Science and Technology: Transactions A: Science, **Springer**
- Indian Journal of Physics, **Springer**
- Alexandria Engineering Journal, **Elsevier**
- Ain Shams Engineering Journal, **Elsevier**
- Journal of King Saud University-Science, **Elsevier**
- Energy, **Elsevier**
- Results in Physics, **Elsevier**
- Results in Surfaces and Interfaces, **Elsevier**
- Journal of the Nigerian Mathematical Society, **Elsevier**
- Chaos, Solitons and Fractals: the interdisciplinary journal of Nonlinear Science, and Nonequilibrium and Complex Phenomena, **Elsevier**
- Karbala International Journal of Modern Science, **Elsevier**
- Journal of Physics and Chemistry of Solids, **Elsevier**
- Heat Transfer - Asian Research, **Wiley**
- Waves in Random and Complex Media, **Taylor & Francis**
- International Journal of Modern Physics B, **World Scientific**
- Science Progress, **SAGE**
- Advances in Mechanical Engineering, **SAGE**
- Journal of Nanomaterials, **Hindawi**
- World Journal of Engineering, **Emerald**
- Nanotechnology Reviews, **De Gruyter**
- Nonlinear Engineering. Modeling and Application, **De Gruyter**
- Journal of Thermophysics and Heat Transfer, **Aeospace Research Central**
- Journal of Nanofluids, **American Scientific Publishers**
- Journal of Physical Mathematics, **OMICS Group- Engineering Journals**
- Scientia Iranica Journal
- International Journal of Engineering, Science and Technology International Journal of Physical Science
- International Journal of Heat and Technology
- International Journal of Applied Power Engineering

7. Administrative Experience

| Institution | Designation | Period | |
|--------------------------|---|------------|------------|
| | | From | To |
| University of Gour Banga | Controller of Examinations (Addl. Charge) | 03.08.2012 | 02.09.2017 |
| University of Gour Banga | Court Member | 01.01.2016 | 30.07.2017 |
| Balurghat Law College | Administrator | 01.02.2016 | 30.07.2017 |
| Malda Women's College | Administrator | 06.08.2016 | 05.02.2017 |

8. Position held

(a) Academic positions

- **HOD**, Department of Mathematics, University of Gour Banga for the period 01.01.2016 to 06.01.18
- **Acting HOD**, Department of Mathematics, University of Gour Banga for the period 08.12.2008 to 05.02.2013
- **Chairman**, Board of Study (BOS) for UG and PG Mathematics, University of Gour Banga for the period 08.09.2012 to 05.01.2014 and now a member of Board of Study (BOS) for UG and PG Mathematics, University of Gour Banga
- **Organizing Secretary**, International Conference on Exploring Advances in Mathematical Sciences, 2017 (ICEAMS-2017). 23-24th March, 2017, University of Gour Banga, Malda
- **Chairman**, Departmental Research BOS of University of Gour Banga
- **Editor**, University Newsletter & Annual Reports, University of Gour Banga
- **Associate Editor**, Member of University Journal Committee, University of Gour Banga
- **Local Secretary**, 76th Indian History Congress, December 27-29, 2015
- **Convener**, PG Core Committee, University of Gour Banga
- **Convener**, UG & PG CBCS Implementation Committee, University of Gour Banga
- **Jt. Convener**, National Conference, Dept. of Mathematics, December 16-17, 2015
- **Lecturer and HOD**, Department of Mathematics, Islampur College, Islampur-733 202, Uttar Dinajpur
- **Course Co-coordinator**, The Study Centre of IGNOU, Islampur College, Uttar Dinajpur

(b) Administrative positions

- **Controller of Examinations (Additional Charge)**, University of Gour Banga, Malda (from 03.08.2012 and 02.09.2017)
- **Member, University Court**, University of Gour Banga, Malda
- **Member, University Council**, University of Gour Banga, Malda
- **Administrator**, Malda Women's College, Malda, West Bengal
- **Administrator**, Balurghat Law College, Balurghat, West Bengal
- **Convener**, Convocation Committee, **First Convocation, December 10, 2015**, University of Gour Banga
- **NAAC Convener/ Coordinator**, NAAC Visit, 2016
- **Convener**, Convocation Committee, **Second Convocation, 2017**, University of Gour Banga
- **Jt. Convener**, RUSA Monitoring Committee, University of Gour Banga
- **Nodal Officer**, B.Ed. (ODL) Mode, NSOU for University of Gour Banga
- **Nodal Officer**, UGB for Anti ragging Committee, UGC for 2012-2013
- **Member**, Governing Body of Islampur College (2007-2008)

9. Fellowships/ Honours / Awards

- Qualified Joint Admission for M.Sc. (JAM 1997) with **Rank -1**
- Qualified Graduate Aptitude Test in Engineering (GATE), 2000
- Qualified CSIR National Eligibility Test (NET), 2002
- Selected an IASc-INSA-NASI Summer Research Fellowship in 2013, National Chemical Laboratory (NCL), Pune
- JMST Contribution **Award for Most Citations** of JMST Papers 2016, Journal of Mechanical Science and Technology, Springer, Publisher: Korean Soc Mechanical Engineers, South Korea.

10. Publications

| | |
|---|------|
| International referred/indexed journals | 158 |
| National referred /indexed journals | 10 |
| Conference papers | 6 |
| Book with ISBN | 4 |
| Book | 2 |
| Citation Index | 2194 |
| Impact Factor (IF)-average | 1.05 |
| h-index | 24 |
| i10-index | 50 |

(a) Published Books

- [1] **Concept of Integral Calculus, JEE Main & Advanced (IIT)**, Sana Publication, ISBN: 978-81-929982-2-0, 2018, Total Pages-623
- [2] **A Text Book of Probability and Statistics** (Including Statistical Practical), Dove Publishing House, Kolkata, 2005 and 1st edition 2015, ISBN: 978-93-82399-30-8.
- [3] **An Integrated Approach to Numerical Analysis**, Sana Publications, 2014, ISBN: 978-81-929982-0-6.
- [4] **Master-Key of UG Mathematics**, Dove Publishing House, Kolkata, 2009 and 1st edition 2010 and Reprint 2011, 2012
- [5] **A Study of Vector Algebra and Calculus**, Dove Publishing House, Kolkata, 2011, ISBN: 978 - 81-920678 - 0 - 3.
- [6] **Problems on UG Mathematics**, Sana Publications, 2014.

(b) Referred/Indexing Journal Publications

2022

- [1] **S. Das**, B. Barman

Ramification of Hall and ion-slip currents on electroosmosis of ionic hybrid nanofluid in a peristaltic microchannel, **BioNanoScience** [Print ISSN: 2191-1630, Electronic ISSN: 2191-1649], **2022**, <https://doi.org/10.1007/s12668-022-01002-z>, **Impact Factor = 2.305, Springer, ESCI, Scopus indexing.**

[2] S. Sarkar, A. Ali, **S. Das**

Bioconvection in non-Newtonian nanofluid near a perforated Riga plate induced by haphazard motion of nanoparticles and gyrotactic microorganisms in the attendance of thermal radiation, and Arrhenius chemical reaction: Sensitivity analysis, **International Journal of Ambient Energy** [ISSN: 0143-0750, ISSN (Online): 2162-8246], **2022**, <https://doi.org/10.1080/01430750.2022.2086919>, **Impact Factor = 2.326, Taylor and Francis Ltd, Scopus indexing.**

[3] **S. Das**, A.S. Banu, R.N. Jana, O.D. Makinde

Hall Current's Impact on Ionized Ethylene Glycol Containing Metal Nanoparticles Flowing Through Vertical Permeable Channel, **Journal of Nanofluids** [ISSN: 2169-432X-Print, EISSN: 2169-4338-Online] **11 (3) (2022), 444- 458**, <https://doi.org/10.1166/jon.2022.1842>, **Impact Factor = 0.90, American Scientific Publishers, Scopus indexing.**

[4] A. Ali, A. Barman, **S. Das**

Electromagnetic phenomena in cilia actuated peristaltic transport of hybrid nano-blood with Jeffrey model through an artery sustaining regnant magnetic field, **Waves in Random and Complex Media** [ISSN: 1745-5030, ISSN (Online): 1745-5049], **2022**, <https://doi.org/10.1080/17455030.2022.2072533>, **Impact Factor = 4.853, Taylor and Francis Ltd, Scopus indexing.**

[5] **S. Das**, N. Mahato, A. Ali, R.N. Jana

Thermal magneto-convection of GO- MoS₂ /WEG within a heated channel retaining an aura of inclined magnetic force along with Hall currents, **Heat Transfer** [Online ISSN: 2688-4542], **2022**, <https://doi.org/10.1002/hjt.22545>, **Impact Factor = 3.75, Wiley, Scopus indexing.**

[6] S. Sarkar, T.K. Pal, A. Ali, **S. Das**

Thermo-bioconvection of gyrotactic microorganisms in a polymer solution near a perforated Riga plate immersed in a DF medium involving heat radiation, and Arrhenius kinetics, **Chemical Physics Letters** [ISSN: 0009-2614] **797 (2022), 139557**, <https://doi.org/10.1016/j.cplett.2022.139557>, **Impact Factor = 2.328, Elsevier, SCI, Scopus, Web of Science indexing.**

[7] **S. Das**, N. Mahato, A. Ali, R.N. Jana

Dynamical behaviour of magneto-copper-titania/water-ethylene glycol stream inside a gyrating channel, **Chemical Physics Letters** [ISSN: 0009-2614] **793(2022), 139476**, <https://doi.org/10.1016/j.cplett.2022.139476>, **Impact Factor = 2.328, Elsevier, SCI, Scopus, Web of Science indexing.**

[8] A. Ali, S. Sarkar, **S. Das**, R.N. Jana

A report on entropy generation and Arrhenius kinetics in magneto-bioconvective flow of Cross nanofluid over a cylinder with wall slip, **International Journal of Ambient Energy** [ISSN: 0143-0750, ISSN (Online): 2162-8246], **2022**, <https://doi.org/10.1080/01430750.2022.2031292>, **Impact Factor = 2.326**, **Taylor and Francis Ltd**, **Scopus indexing**.

2021

[9] **S. Das**, B. Barman, R.N. Jana

Hall and ion-slip currents' role in transportation dynamics of ionic Casson hybrid nano-liquid in a microchannel via electroosmosis and peristalsis, **Korea-Australia Rheology Journal** [Print ISSN: 1226-119X, Electronic ISSN: 2093-7660] **33 (4) (2021), 367-391**, <https://doi.org/10.1007/s13367-021-0029-6>, **Impact Factor = 1.446**, **Springer**, **SCIE**, **Scopus indexing**.

[10] A. Ali, S. Sarkar, **S. Das**, R.N. Jana

Investigation of Cattaneo–Christov double diffusions theory in bioconvective slip flow of radiated magneto-cross-nanomaterial over stretching cylinder/plate with activation energy, **International Journal of Applied and Computational Mathematics** [Print ISSN: 2349-5103, Electronic ISSN: 2199-5796] **7 (5) (2021), 1-28**, <https://doi.org/10.1007/s40819-021-01144-w>, **Impact Factor = 1.77**, **Springer**, **Scopus indexing**.

[11] A. Ali, R.N. Jana, **S. Das**

Significance of entropy generation and heat source: the case of peristaltic blood flow through a ciliated tube conveying Cu-Ag nanoparticles using Phan-Thien-Tanner model. **Biomechanics and Modeling in Mechanobiology** [Print ISSN: 1617-7959, Electronic ISSN: 1617-7940] **20 (2021), 2393–2412**, <https://doi.org/10.1007/s10237-021-01515-8>, **Impact Factor = 2.963**, **Springer**, **SCIE**, **Scopus indexing**.

[12] **S. Das**, B. Barman, R.N. Jana

Influence of Hall and ion-slip currents on peristaltic transport of magneto-nanofluid in an asymmetric channel, **BioNanoScience** [Print ISSN: 2191-1630, Electronic ISSN: 2191-1649] **11 (2021), 720 –738**, <https://doi.org/10.1007/s12668-021-00881-y>, **Impact Factor = 1.174**, **Springer**, **ESCI**, **Scopus indexing**.

[13] **S. Das**, T.K. Pal, R.N. Jana, B. Giri

Ascendancy of electro-magnetic force and Hall currents on blood flow carrying Cu-Au NPs in a non-uniform endoscopic annulus having wall slip, **Microvascular Research** [ISSN: 0026-2862] **138 (2021), 104191**, <https://doi.org/10.1016/j.mvr.2021.104191>, **Impact Factor = 2.730**, **Elsevier**, **SCI**, **Scopus**, **Web of Science indexing**.

[14] **S. Das**, T.K. Pal, R.N. Jana, B. Giri

Significance of Hall currents on hybrid nano-blood flow through an inclined artery having mild stenosis: Homotopy perturbation approach, **Microvascular Research** [ISSN: 0026-2862] **137** (2021), **104191**, <https://doi.org/10.1016/j.mvr.2021.104192>, **Impact Factor = 2.730**, Elsevier, SCI, Scopus, Web of Science indexing.

[15] S. Das, T.K. Pal, R.N. Jana

Electromagnetic hybrid nano-blood pumping via peristalsis through an endoscope having blood clotting in presence of Hall and ion slip currents, **BioNanoScience** [Print ISSN: 2191-1630, Electronic ISSN: 2191-1649] **11** (2021), **848–870**, <https://doi.org/10.1007/s12668-021-00853-2>, **Impact Factor = 1.174**, Springer, ESCI, Scopus indexing.

[16] S. Das, B. Barman, R.N. Jana, O.D. Makinde

Hall and ion slip currents' impact on electromagnetic blood flow conveying hybrid nanoparticles through an endoscope with peristaltic waves, **BioNanoScience** [Print ISSN: 2191-1630, Electronic ISSN: 2191-1649], **11** (2021), **770–792**, <https://doi.org/10.1007/s12668-021-00873-y>, **Impact Factor = 1.174**, Springer, ESCI, Scopus indexing.

[17] S. Das, T.K. Pal, R.N. Jana

Outlining impact of hybrid composition of nanoparticles suspended in blood flowing in an inclined stenosed artery under magnetic field orientation, **BioNanoScience** [Print ISSN: 2191-1630, Electronic ISSN: 2191-1649] **11**(2021), **99-115**, <https://doi.org/10.1007/s12668-020-00809-y>, **Impact Factor = 1.174**, Springer, ESCI, Scopus indexing.

[18] S. Das, R.R. Patra, R.N. Jana

Hydromagnetic oscillatory reactive flow through a porous channel in rotating frame subject to convective heat exchange under Arrhenius kinetics, **Journal of Engineering Physics and Thermophysics** (ISSN: 1062-0125-Print, 1573-871X-Online) **94(3)** (2021), **722-733**, **Impact Factor = 1.174**, Springer, ESCI, Scopus indexing.

[19] A. Ali, R.N. Jana, S. Das

Radiative CNT-based hybrid magneto-nanoliquid flow towards an extending curved surface with slippage and convective heating, **Heat Transfer - Asian Research** [ISSN: 2688-4542] **50(3)** (2021), **2997-3020**, <https://doi.org/10.1002/htj.22015>, **Impact Factor = 1.712**, Wiley, Scopus indexing.

[20] R.P. Sharma, S.K. Ghosh, S. Das

MHD Flow in a Rotating Channel Surrounded in a Porous Medium with an Inclined Magnetic Field Energy Systems and Nanotechnology, 2021, 369-384, Springer, Scopus indexing.

[21] S. Das, S. Sarkar, R.N. Jana

Assessment of irreversible losses of non-Newtonian nanofluid flow underlying Hall current, chemical reaction and thermal radiation, **World Journal of Engineering** [ISSN: 1708-5284] **18(2)** (2021), **228-**

250, <https://doi.org/10.1108/WJE-07-2020-0266>, **Impact Factor = 0.5**, Emerald Publishing Limited, Scopus indexing.

[22] **S. Das**, A. Ali and R.N. Jana:

Darcy-Forchheimer flow of a magneto-radiated couple stress fluid over an inclined exponentially stretching surface with Ohmic dissipation, **World Journal of Engineering** [ISSN: 1708-5284] **18(2) (2021)**, 435-360, <https://doi.org/10.1108/WJE-07-2020-0258>, **Impact Factor = 0.5**, Emerald Publishing Limited, Scopus Indexing.

[23] **S. Das**, A.S. Banu, R.N. Jana

Delineating impacts of non-uniform wall temperature and concentration on time-dependent radiation-convection of Casson fluid under magnetic field and chemical reaction, **World Journal of Engineering** [ISSN: 1708-5284] **18(5) (2021)**, 780-795, <https://doi.org/10.1108/WJE-11-2020-0607>, **Impact Factor = 0.5**, Emerald Publishing Limited, Scopus indexing.

[24] **S. Das**, A. Ali, R.N. Jana

Numerically framing the impact of magnetic field on nanofluid flow over a curved stretching surface with convective heating. **World Journal of Engineering** (ISSN: 1708-5284) **18(6) (2021)**, 938-947, <https://doi.org/10.1108/WJE-11-2020-0587>, **Impact Factor = 0.5**, Emerald Publishing Limited, Scopus indexing.

2020

[25] **S. Das**, S. Sarkar, R.N. Jana

Feature of entropy generation in Cu-Al₂O₃/ethylene glycol hybrid nanofluid flow through a rotating channel, **BioNanoScience** [Print ISSN: 2191-1630, Electronic ISSN: 2191-1649] **10 (4) (2020)**, 950-967, <https://doi.org/10.1007/s12668-020-00773-7>, **Impact Factor = 1.174**, Springer, ESCI, Scopus indexing.

[26] S. Sarkar, R.N. Jana, **S. Das**

Time-dependent entropy analysis in magnetized Cu-Al₂O₃/ethylene glycol hybrid nanofluid flow due to a vibrating vertical plate, **International Journal of Fluid Mechanics Research** [ISSN Print: 2152-5102. ISSN Online: 2152-5110] **47(5)**, 419-443(2020), <https://doi.org/10.1615/InterJFluidMechRes.2020033884>, **Impact Factor = 0.43**, Begell House, Scopus indexing.

[27] **S. Das**, A. Ali, R.N. Jana

Impact of Hall currents with buoyancy forces on hydromagnetic reactive Casson fluid flow past a slippery plate in a rotating porous medium, **Special Topics & Reviews in Porous Media: An International Journal** [ISSN: 21514798, 2151562X] **11(4) (2020)**, 313-340, **Impact Factor = 0.997**, Begell House, Scopus indexing.

[28] **S. Das**, A. Ali, R.N. Jana

Darcian slip flow of rotating magneto-reactive PEG conveying MoS₂ Casson nanofluid with ramped temperature and concentration, **Special Topics & Reviews in Porous Media: An International Journal** [ISSN: 21514798, 2151562X], **11(1) (2020), 71-102, Impact Factor = 0.997, Begell House, ESCI, Scopus indexing.**

[29] **S. Das**, A. Ali, R. N. Jana, S.M. Banerjee

Hall effect on heat transport of magnetized Cu-engine oil over a rotating slipping disk with convective heating in a porous space, **Special Topics & Reviews in Porous Media - An International Journal** [ISSN: 21514798, 2151562X] **11(5) (2020), 493-516, https://doi.org/10.1615/SpecialTopicsRevPorousMedia.2020033878, Impact Factor = 0.997, Begell House, ESCI, Scopus indexing.**

[30] **S. Das**, R.R. Patra, R.N. Jana

The layout of Boussinesq couple-stress fluid flow over an exponentially stretching sheet with slip in porous space subject to a variable magnetic field, **Multidiscipline Modeling in Materials and Structures** [ISSN: 1573-6105] **16(5) (2020), 1131-1154. https://doi.org/10.1108/MMMS-09-2019-0168, Impact Factor = 0.7, Emerald Publishing, ESCI, Scopus indexing.**

[31] S. Sarkar, R.N. Jana, **S. Das**

Activation energy impact on radiated magneto-Sisko nanofluid flow over a stretching and slipping cylinder: Entropy analysis, **Multidiscipline Modeling in Materials and Structures (ISSN: 1573-6105) 16(5) (2020), 1085-1115. https://doi.org/10.1108/MMMS-09-2019-0165, Impact Factor = 0.7, Emerald Publishing, ESCI, Scopus indexing.**

[32] A. Ali, S.M. Banerjee, **S. Das**

Hall and ion slip current's impact on magneto-sodium alginate hybrid nanoliquid past a moving vertical plate with ramped heating, velocity slip and Darcy effects, **Multidiscipline Modeling in Materials and Structures (ISSN: 1573-6105) 17(1) (2020), 65-101, https://doi.org/10.1108/MMMS-12-2019-0218, Impact Factor = 0.7, Emerald Publishing, ESCI, Scopus indexing.**

[33] A. Ali, R.N. Jana, **S. Das**

Hall effects on radiated magneto-power-law fluid flow over a stretching surface with power-law velocity slip effect, **Multidiscipline Modeling in Materials and Structures** [ISSN: 1573-6105] **17(1) (2020), 103-125, https://doi.org/10.1108/MMMS-01-2020-0005, Impact Factor = 0.7, Emerald Publishing, ESCI, Scopus indexing.**

[34] N. Mahato, S.M. Banerjee, R. N. Jana, **S. Das**

MoS₂-SiO₂/ethylene glycol transport in a rotating channel with periodically heating wall under the influence of a strong magnetic dipole (Hall effect), **Multidiscipline Modeling in Materials and Structures** [ISSN: 1573-6105] **16(6) (2020), 1595-1616, https://doi.org/10.1108/MMMS-12-2019-0232, Impact Factor = 0.7, Emerald Publishing, ESCI, Scopus indexing.**

[35] **S. Das**, A. Ali, R.N. Jana

Insight into the dynamics of magneto-Casson hybrid nanoliquid caused by a plate rotation, **World Journal of Engineering** [ISSN: 1708-5284] **18(1) (2020), 66-84**, <https://doi.org/10.1108/WJE-07-2020-0261>, **Impact Factor = 0.5**, Emerald Publishing Limited, Scopus indexing.

2019

[20] **S. Das**, B. Tarafdar, R. N. Jana, O. D. Makinde

Influence of rotational buoyancy on magneto-radiation-convection near a rotating vertical plate, **European Journal of Mechanics / B Fluids** [ISSN: 0997-7546], **75(2019), 209-218**, Elsevier, **Impact Factor = 2.098**, SCI, Scopus indexing.

[21] **S. Das**, R. N. Jana, O. D. Makinde

Entropy generation minimization of MHD slip flow of Casson H₂O+Cu nanofluid in a porous microchannel, **Journal of Nanofluids** [ISSN: 2169-432X-Print, EISSN: 2169-4338-Online], American Scientific Publishers, **8(1) (2019), 205-221**, **Impact Factor = 0.90**, Scopus indexing.

[22] **S. Das**, B. Tarafdar, S. Sarkar and R. N. Jana

Rotational magneto-hydrodynamic Couette flow of nanofluids with Hall effects, **Journal of Nanofluids** [ISSN: 2169-432X-Print, EISSN: 2169-4338-Online] **8(3) (2019), 604-619**, **Impact Factor = 0.90**, American Scientific Publishers, Scopus indexing.

[23] **S. Das**, B. Barman, S. Chakraborty and R.N. Jana

Entropy generation due to peristaltic flow of Cu-water nanofluid in a tube through a porous space under effect of magnetic field and Hall currents: Application of biomedical engineering, **Special Topics & Reviews in Porous Media: An International Journal** [ISSN: 21514798, 2151562X], **10(3) (2019), 259-289**, **Impact Factor = 0.997**, Begell House, ESCI, Scopus indexing.

[24] **S. Das**, B. Tarafdar, R.N. Jana and O.D. Makinde

Magnetic ferro-nanofluid flow in a rotating channel containing Darcian porous medium considering induced magnetic field and Hall currents, **Special Topics & Reviews in Porous Media: An International Journal** [ISSN: 21514798, 2151562X], **10(4) (2019), 357-383**, **Impact Factor = 0.997**, Begell House, ESCI, Scopus indexing.

2018

[25] **S. Das**, B. Tarafdar, R. N. Jana

Hall effects on unsteady MHD rotating flow past a periodically accelerated porous plate with slippage, **European Journal of Mechanics / B Fluids** [ISSN: 0997-7546], **72(2018), 135-143**, Elsevier, **Impact Factor = 2.098**, SCI, Scopus indexing.

- [26] **S. Das**, B. Tarafdara, R. N. Jana, O. D. Makinde
Influence of wall conductances on a fully developed mixed convection magnetohydrodynamic nanofluid flow in a vertical channel, **Journal of Engineering Physics and Thermophysics** [ISSN: 1062-0125-Print, 1573-871X-Online], **91(3) (2018), 834-847, Springer, ESCI, Scopus indexing.**
- [27] **S. Das**, B. Tarafdar, R. N. Jana
Hall effects on MHD flow of nanofluids due to non-coaxial rotation of a porous disk and a fluid at infinity, **Journal of Nanofluids** [ISSN: 2169-432X-Print, EISSN: 2169-4338-Online], **American Scientific Publishers, 7(6) (2018), 1172-1186, Impact Factor = 0.90, Scopus indexing.**
- [28] **S. Das**, S. Sarkar, R. N. Jana
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