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2. Teza sau tezele de doctorat;

- 1) **Vatamanu J**, „Atom-Based Integral Equation Theories for Chiral Fluids”, Ph.D. Thesis, Queen’s University, Kingston, Canada, Ontario. Graduation Year: **2004**, Thesis Advisor: Prof. Dr. Natalie M Cann,
Link-1: <https://library-archives.canada.ca/eng/services/services-libraries/theses/Pages/item.aspx?idNumber=79255277>
Link-2: <https://bac-lac.on.worldcat.org/oclc/79255277>

3. Brevete de invenție și alte titluri de proprietate industrială;

4. Cărți și capitole în cărți;

- 1) Bedrov D, **Vatamanu J**, „Capacitance with Different Electrode Surface Topology” , In Zhang S., (eds) Encyclopedia of Ionic Liquids, **2022**, pp. 159-167, Springer, Singapore,
link: https://link.springer.com/referenceworkentry/10.1007/978-981-33-4221-7_16
- 2) **Vatamanu J***, Xing L, Bedrov D, „Modeling Methods of Ionic Liquids at Charged Electrode Surfaces”, In Zhang S., (eds) Encyclopedia of Ionic Liquids, **2022**, pp. 901-910, Springer, Singapore,
link: https://link.springer.com/referenceworkentry/10.1007/978-981-33-4221-7_114

5. Articole/studii in extenso, publicate în reviste din fluxul științific internațional principal

(vezi lista de 50 de articole ISI de mai sus)

6. Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

- 1) Borodin O, **Vatamanu J**, Smith G, "Bulk and Interfacial Behavior of Ionic Liquids from Molecular Dynamics Simulations", ECS Trans., 33, 583, DOI: 10.1149/1.3484817,
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- 3) Kusalik PG*, **Vatamanu J**, "A Microscopic View of the Crystal Growth of Gas Hydrates", Open Collections, International Conference on Gas Hydrates (ICGH) (6th : 2008),
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7. Contracte/proiecte de cercetare-dezvoltare-inovare pe bază de contract/grant (incluzând numele proiectului, codul, competiția, directorul de proiect, valoarea totală, valoarea alocată instituției membre la care candidatul era afiliat în timpul derulării proiectului, alte informații)

7.A. Proiecte la care eu sunt P.I. (sunt proiecte de acces la resurse la supercomputerele Europei via EuroHPC):

- 1) "Implementation of polarizable force fields via inducible dipoles in LAMMPS general purpose parallel molecular dynamics code", PI, Euro-HPC, <https://pracecalls.eu/applications/EHPC-DEV-2023D12-075> (project to be granted access to computing resources via the calls at: https://eurohpc-ju.europa.eu/access-our-supercomputers/eurohpc-access-calls_en)
- 2) "Implementation of atomic-level anisotropy polarizable force-fields into TINKER-HP and LAMMPS general purpose parallel molecular dynamics codes", PI, Euro-HPC, <https://pracecalls.eu/applications/EHPC-DEV-2023D12-009> (project to be granted access to computing resources)
- 3) "Benchmarking molecular dynamics simulation community codes LAMMPS, GROMACS, OpenMM, CP2K, on EuroHPC super-computer.", PI, Euro-HPC, <https://pracecalls.eu/applications/EHPC-BEN-2023B12-006> (project to be granted access to computing resources)

7.B. Contracte la care eu nu am fost nici P.I. si nici co-P.I. dar care au suportat cercetarea făcută de mine:

- 1) Pe durata postdocului in Canada la Dalhousie Univ. si University of Calgary, Advisor & PI: Prof. Peter G Kusalik (copy/paste din scrisoarea de verificare) :

His work with my research group was support by the following funding:

Name(s)	Funding agency, type of support, title, ...	Amount (/yr)	Tenure
P.G. Kusalik	University of Calgary, Startup Funding	\$150,000	2005/06
P.G. Kusalik	Natural Sciences and Engineering Research Council (NSERC). Research Grant. "Computer Simulation Studies of Molecular Liquids, Solutions and Crystallization."	\$50,000	2001/02 to 2005/06
P.G. Kusalik and others	C3.ca Technical Analyst Support Program (TASP) for Dalhousie University (ACENET)	\$22,000	2004/05
P.G. Kusalik	Research grant (Faculty of Science) negotiated as part of arrangement in being Acting Associate Dean	\$10,000	2004/05
As co-investigator			
M.A. White with 12 others	Atlantic Innovations Fund. "Materials Technology Network for Atlantic Canada"	\$5,000,000 (3%) \$350,000 (15%) \$350,000 (15%) \$350,000 (15%) \$350,000 (15%)	2003 2004 2005 2006 2007
M.A. White with 23 others	NSERC. Major Facilities Access. "Materials Characterization Facilities"	\$133,000 (8%) \$160,000 (6%) \$160,000 (6%)	2003 2004 2005
M.A. White with 8 others	Canada Foundation for Innovation (CFI) plus industrial partners. "Facilities for Materials Characterization"	\$4,800,000 (3%) \$400,000 (0%)	2003 2004

- 2) Pe durata Jobului de Cercetator Asociat din Univerity of Utah (Advisors Dr. Grant D Smith (initial) si Dr. D. Bedrov): (copy/paste din emailul de confirmare)

1) DOE-SISGR "Influence of electrolyte structure and electrode morphology on the performance of ionic liquid based supercapacitors" (DECS00001912), 2009-2013, project budget \$1,500,000, PIs: Grant D. Smith and Dmitry Bedrov.

2) DOD "Collaborative Research Alliance for Multiscale Modeling of Electronic Materials" (W911NF-12-2-0023), 2012-2021, budget \$1,900,000, PI: Dmitry Bedrov.

- 3) Pe durata participării ca full-time senior fellow la programul ARL-RAP via ORAU: (copy/paste din scrisoarea de verificare):

Dr. Vatamanu's participation was full time during which time he worked on several projects supported by:

- Department of Energy through Joint Center for Energy Storage Research from 06/2017 - 2022, PI for ARL part, Kang Xu, \$500K/year
- ARL Directors Research Initiative on Modeling Electrodeposition, 2016 – 2019, PI Oleg Borodin, \$200K/year
- Department of Energy, Understanding Cathode – Electrolyte Interfaces, 2019-2020, co-PI Oleg Borodin, 125K/year

8. Alte lucrări și contribuții științifice sau, după caz, din domeniul creației artistice.

- 1) Am creat cover-ul, adică imaginea de pe coperta, la jurnalul „Journal of Physical Chemistry Letters”, **2015**, September 17, Volume 6, Issue 18. În procesul creării aceluși cover am avut feedback de la Dr. Dmitry Bedrov și de la Dr. Mihaela Vatamanu.
Link către volumul în cauză (cu cover-ul respectiv): <https://pubs.acs.org/toc/jpclcd/6/18>

Data

Semnătura

11-JUNE-2024



