



Curriculum vitae

Personal Information

FIRST NAME / SURNAME Natcha Injan
ADDRESS Department of Chemistry, School of Science, University of Phayao, 19 Moo 2, Maeka, Maueng, Phayao, 56000
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Education

DATES 1998 – 2002
ACADEMIC DEGREE B.Sc. (Chemistry)
INSTITUTION Chiang Mai University

DATES 2002 – 2010
ACADEMIC DEGREE Ph.D. (Chemistry)
INSTITUTION Kasetsart University

Work Experience

DATES May 2010 – present
POSITION Lecturer
ACADEMIC POSITION Assistant Professor
ADDRESS Department of Chemistry, School of Science, University of Phayao, 19 Moo 2, Maeka, Maueng, Phayao, 56000
ACADEMIC FIELD OF SPECIALTY Computational Chemistry, Nanoscience, Nanomaterials, Catalysis

Research Units

- Advanced Nanomaterials for Energy Storage Research Unit, School of Science, University of Phayao
- Medicinal Plants and Cosmetic Research Unit, School of Science, University of Phayao



Research Funds

PROJECT TITLE	Lactic Acid-to-Acrylic Acid Conversion over Transition Metal-Loaded NaY Zeolites
DATES	January 2017 - December 2017
RESEARCH FUNDING INSTITUTE	University of Phayao
PROJECT TITLE	Ethylene Epoxidation Catalyzed by Transition Metal Supported Nanotubes on and Their Derivatives: A Quantum Chemical Study
DATES	June 2011 - June 2013
RESEARCH FUNDING INSTITUTE	The Thailand Research Fund (TRF), Commission on Higher Education (CHE-MUA) and University of Phayao
PROJECT GROUP	Advanced Nanomaterials for Energy Storage Research Unit
DATES	February 2020 - January 2021
RESEARCH FUNDING INSTITUTE	School of Science, University of Phayao
PROJECT GROUP	Medicinal Plants and Cosmetic Research Unit
DATES	2021
RESEARCH FUNDING INSTITUTE	School of Science, University of Phayao

Research Publications

INTERNATIONAL PUBLICATIONS	<p>Sorachai Khamsan, Chutikan Janya, Jirapun Chanawongsa, Natcha Injan, Wanrudee Keawmesri, Manat Jaimasith and Chayanan Jitmanee. Catalytic activity of natural silica for green synthesis of 3,4-dihydropyrimidinone derivatives and antibacterial activity. <i>NU. International Journal of Science</i> 2020; 17(1): 32-44.</p> <p>Noppawan Intecha, Natcha Injan, Wanrudee Keawmesri, Manat Jaimasith, Chayanan Jitmanee, and Sorachai Khamsan. Chemical constituents and cytotoxic effects of the essential oil from the root of <i>Cyperus kyllingia</i> Endl. <i>Research & Knowledge</i> 2018; 4: 40-44.</p> <p>Natcha Injan, Jakkapan Sirijaraensre and Jumras Limtrakul. Decomposition of nitrous oxide on Fe-doped boron nitride nanotubes: The ligand effect. <i>Physical Chemistry Chemical Physics</i> 2014; 16: 23182-23187.</p>
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Probst, Michael; **Injan, Natcha**; Megyes, Tuende; Bako, Imre; Balint, Szabolcz; Limtrakul, Jumras; Nazmutdinov, Renat; Mitev, Pavlin D; Hermansson, Kersti. A gold cyano complex in nitromethane: MD simulation and X-Ray diffraction. *Chemical Physics Letters* 2012; **539**: 24-29.

Injan N, Megyes T, Radnai T, Bako I, Balint S, Limtrakul J, Probst M. $\text{Au}(\text{CN})_2(\text{CH}_3\text{NO}_2)_n$ cluster anions: Energetics and geometrical features. *Journal of Molecular Liquids* 2011; **159**: 38-41.

Injan N, Megyes T, Radnai T, Bako I, Balint S, Limtrakul J, Spangberg D, Probst M. Potential energy surface and molecular dynamics simulation of gold(I) in liquid nitromethane. *Journal of Molecular Liquids* 2009; **147**: 64-70.

Probst M, **Injan N**, Denifl S, Zappa F, Maehr I, Beikircher M, Ptasinska S, Limtrakul J, Maerk T D, Mauracher A, Scheier P. Calculation of processes relevant to reactions between nucleic acids and free electrons. *Chemical Engineering Communications* 2008; **195**: 1371-1381.

Zappa F, Beikircher M, Mauracher A, Denifl S, Probst M, **Injan N**, Limtrakul J, Bacher A, Echt O, Mark T D, Scheier P, Field T A, Graupner K. Metastable dissociation of anions formed by electron attachment. *ChemPhysChem* 2008; **9**: 607-611.

Denifl S, Sulzer P, Huber D, Zappa F, Probst M, Märk T D, Scheier P, **Injan N**, Limtrakul J, Abouaf R, Dunet H. Influence of functional groups on the site-selective dissociation of adenine upon low-energy electron. *Angewandte Chemie International Edition* 2007; **46**: 5238-5241.

N Injan, N Pannorad, M Probst, J Limtrakul. Pyridine adsorbed on H-Faujasite zeolite: Electrostatic effect of the infinite crystal lattice calculated from a point charge representation. *International Journal of Quantum Chemistry* 2005; **105 (6)**, 898-905.



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NATIONAL PUBLICATIONS

Natcha Injan, Manopat Depijan, Sorachai Khamsan and Somkiat Nokbin. Theoretical Study on Lactic Acid-to-Acrylic Acid Conversion using FeO-Y Zeolite as a Catalyst. *Proceedings of The 9th Phayao Research Conference 2020*; 745-753.



Conferences

INTERNATIONAL CONFERENCES

Injan N, Probst M, Denifl S, Zappa F, Mähr I, Beikircher M, Ptasińska S, Limtrakul J, Märk T D, Scheier P. Energetics and geometries of nucleic acid base pairs in the gas phase and in liquid helium. *The 47th Sanibel Symposium*, St. Simons Island, Georgia, United States, February 22-27, 2007. (Poster Presentation)

Probst M, **Injan N**, Denifl S, Zappa F, Limtrakul J, Märk T D, Scheier P, Urban J, Mach P. Quantum chemistry of dissociative electron attachment to adenine. *The 47th Sanibel Symposium*, St. Simons Island, Georgia, United States, February 22-27, 2007. (Poster Presentation)

Injan N, Probst M, Limtrakul J, Megyes T, Radnai T, Bako I, Balint S. Interaction of gold(I) and chloride(I) ions with nitromethane. *The First Thailand National Nanotechnology Conference on Nanomaterials, Pharmaceuticals, Devices and Applications*, Chiang Mai, Thailand, August 14-16, 2007. (Oral Presentation)

Injan N, Pannorad N, Probst M, Limtrakul J. Pyridine adsorbed on H-faujasite zeolite: The electrostatic effect of the infinite crystal lattice calculated from point charge representation. *The 231st ACS National Meeting*, Atlanta, GA, United States, March 26-30, 2006. (Poster Presentation)

Injan N, Pabchada S, Sunphet B, Limtrakul J. ONIOM study of partial oxidation of methane to methanol on Co-ZSM-5 and Fe-ZSM-5 nanoporous catalysts. *The 229th ACS National Meeting*, San Diego, CA, United States, March 13-17, 2005. (Poster Presentation)

Injan N, Limtrakul J. QM/MM investigation of adsorption of benzene and toluene over alkali-exchanged Faujasite zeolite. *The 227th ACS National Meeting*, Anaheim, CA, United States, March 28 - April 1, 2004. (Poster Presentation)



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Natcha Injan, Manopat Depijan, Sorachai Khamsan and Somkiat Nokbin. Theoretical Study on Lactic Acid-to-Acrylic Acid Conversion using FeO-Y Zeolite as a Catalyst. *The 9th Phayao Research Conference*, Phayao, Thailand, January 23-24, 2020. (Poster Presentation)