**Curriculum Vitae**

Full name: Nguyen Thang Xiem

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Department of Basic Civil Engineering

Faculty of Civil Engineering

Nha Trang University

02 Nguyen Dinh Chieu St., Nha Trang City, Vietnam

**EDUCATION**

**Techincal** **Unversity of Liberec**, Czech Republic

Ph.D. in Materials Science, 2008-2012

**Nha Trang University**, Nha Trang, Vietnam

B.A. in Manufacturing Engineering, 1999-2004

**RESEARCH INTERESTS**

1. Geopolymer composite, mortar, concrete and block brick;
2. Plasma technology;
3. Commercial fibers;
4. Researching the solutions to apply the advanced methods in waste processing.
5. Influences of high temperature and environment on mechanical properties of concrete and composite.

**RESEARCH EXPERIENCE**

Polymer composite

Mortar, concrete and block brick

**TEACHING RESPONSIBILITY**

#  Undergraduate:

1. Descriptive Geometry and Engineering Drawing
2. Building Materials
3. Engineering Materials
4. Computer Aided Design
5. Construction machine

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#  Graduate:

1. New materials in Engineering
2. Mechanics of Composite Materials

**PUBLICATIONS and PRESENTATIONS**

#  Journals:

**Books:**

Tran Doan Hung, Petr Louda, Dora Kroisová, Oleg Bortnovsky**, Nguyen Thang Xiem**. 2011. New Generation of Geopolymer Composite for Fire-Resistance, Advances in Composite Materials – Analysis of Natural and Man-made Materials, Editor Pavla Tesinova, pp. 73 – 92. InTech Publisher.

**Journals**

1. Hung Tran Doan, **Xiem Nguyen Thang**, Sy Bach Van, “Research in improvement of raw materials manufacturing of adobe bricks”, Journal of Fisheries Science and Technology, 2020.
2. **Xiem Nguyen Thang**, “[Influences of High Temperatures and Environmental Conditions on Mechanical Properties of Geopolymer Mortar based on Fly Ash](http://www.ijert.org/view-pdf/14582/influences-of-high-temperatures-and-environmental-conditions-on-mechanical-properties-of-geopolymer-mortar-based-on-fly-ash)”, International Journal of Engineering Research and Technology, volume 5, issue 01, 2016.
3. **Xiem Nguyen Thang**, “[Influence of Curing and Water to the Mechanical Properties of Geopolymer Mortar](http://www.ijert.org/view-pdf/14724/influence-of-curing-and-water-to-the-mechanical-properties-of-geopolymer-mortar)” International Journal of Engineering Research and Technology, volume 5, issue 02, 2016.
4. **Nguyen Thang Xiem**, Tran Doan Hung, “Initial research on ability to reuse nix grain waste”, Journal of Fisheries Science and Technology, issue 1, 2016.
5. **Nguyen Thang Xiem,** Tran Doan Hung, “The flexural properties of geopolymer composites reinforced woven fabrics after exposure to different temperatures”, Journal of Vietnam Mechanical Engineering, issue 1+2, 2015.
6. **Nguyen Thang Xiem**, Potential applications of adding fly ash based geopolymer mortar and concrete, Journal of Fisheries Science and Technology, issue 1, 2013.
7. **Xiem Nguyen Thang**, et al., “The influence of modified fly ash particles by heating on the compressive strength of geopolymer mortar”, Journal of Chemiské listy, volume 106, 2012.
8. **Xiem Nguyen Thang**, et al., “Effects of commercial fibers reinforced on the mechincal properties of geopolymer mortar”, Journal of Chemiské listy, volume 106, 2012.
9. **Xiem Nguyen Thang**, et al., “Thermophysical properties of woven fabrics reinforced geopolymer composites“, World Journal of Engineering, volume 10 (2), 2013.
10. **Xiem Nguyen Thang**, et al., “Microstructure and Flexural Properties of Geopolymer Matrix-Fiber Reinforced Composite with Additives of alumina (Al2O3) Nanofibres”, World Journal of Engineering, volume 7, 2010.
11. **Xiem Nguyen Thang**, et al., “Moisture and Chemical Resistant of Geopolymer Composites”, World Journal of Engineering, volume 7, 2010.
12. **N. T. Xiem**, et al., “Effects of temperature and plasma treatment on mechanical properties of ceramic fibres”. Journal of Achievements in Materials and Manufacturing Engineering, JAMME. Volume: 37/2, 2009.

#  Presentations:

1. **Xiem Nguyen Thang, “**Researching ability to reuse waste copper slag from Hyundai Vinashin Shipyard company limited in Khanh Hoa province, Vietnam**”,** 1st Korea – Vietnam Joint International Symposium, Vietnam, 2018.
2. **Xiem Nguyen Thang**, “Initial Studies on The mechanical Properties of Geopolymer Mortar after Additive Stone Powder Treatment”, Canada-Japan-Vietnam Workshop on Composites, 2016.
3. **Xiem Nguyen Thang**, “Optimizing the percentage of fly ash in geopolymer mortar and concrete”, 2nd Vietnam–Korea polymer materials symposium, 2016.
4. **Xiem Nguyen Thang**, et al., “Thermophysical properties of woven fabrics reinforced geopolymer composites“, 18th International conference STRUTEX 2011, ISBN-978-80-7372-786-4, Czech Republic(CD version), 2011.
5. Vijay Baheti, **Xiem Nguyen Thang**, Jiri Militky, Petr Louda, “Influence of wet milling of fly ash on compression strength of geopolymer mortar cured at room temperature”, 18th International conference STRUTEX 2011, ISBN-978-80-7372-786-4, Czech Republic (CD version), 2011.
6. **Xiem Nguyen Thang**, et al., “The influence of modified fly ash particles by heating on the compressive strength of geopolymer mortar”, 8th International Conference LMP 2011, ISBN: 978-80-244-2889-5, Oloumoc - Czech Republic, 2011.
7. **Xiem Nguyen Thang**, et al., “Effects of commercial fibers reinforced on the mechincal properties of geopolymer mortar”, 8th International Conference LMP 2011, ISBN: 978-80-244-2889-5, Oloumoc - Czech Republic, 2011.
8. Linh Trinh Thi, Dora Kroisova, Petr Louda, **Nguyen Thang Xiem**, Pavel Kejzlar, “Compressive strength of fly ash based geopolymer adding nanofiber”, Workshop pro doktorandy FS a FT TUL 2011, ISBN: 978-80-7372-765-9, Czech Republic, 2011.
9. **N. T. Xiem**, et al., “Možnosti průmyslového využití geopolymerních materialů v konstrukce”, Workshop pro doktorandy FS a FT TUL 2011, pp. 288 -293, ISBN: 978-80-7372-765-9, Czech Republic, 2011.
10. **N. T. Xiem**, et al., “Effect of curing on the mechanical properties of geopolymer mortar incorporating different fly ash content”, IXth International Conference Preparation of Ceramic Materials, ISBN: 978-80-553-0678-0, Slovakia, 2011.
11. **N. T. Xiem**, et al., “Effects of high temperature on the mechanical properties of fly ash and stone powder based geopolymer materials”, 18th International Students’ Day of Metallurgy, ISBN: 978-3-200-02155-6, Austria, 2011.
12. **Xiem Nguyen Thang**, et al., “Influence of chemical reagent on flexural properties of geopolymer composites”, the 9th Workshop on Polymer Processing, Publishing licence No: 215-2010/CXB/146.1-17/KHKT, Hanoi – Vietnam, 2010.
13. **Xiem Nguyen Thang**, et al., “Microstructure and Flexural Properties of Geopolymer Matrix-Fiber Reinforced Composite with Additives of alumina (Al2O3) Nanofibres”, 7th Textile science International Conference (TEXSCI), ISBN: 978-80-7372-635-5 (CD version), Liberec - Czech Republic, 2010.
14. **Xiem Nguyen Thang**, et al., “Moisture and Chemical Resistant of Geopolymer Composites” 7th Textile science International Conference (TEXSCI), ISBN: 978-80-7372-635-5 (CD version), Liberec - Czech Republic, 2010.
15. **N. T. Xiem**, et al., “Influence of Plasma Treatment on the Flexural Properties of Geopolymer Composites”, 2nd RMUTP International Conference: Green Technology and Productivity, In press, Bangkok - Thailand, 2010.
16. **Xiem Nguyen Thang**, et al., “Effects of plasma treatment on mechanical properties of commercial fibers based on Geopolymer matrix composites”, 16th International Conference Strutex structure and structural mechanics of textiles, ISBN: 978-80-7372-542-6 (CD version), Liberec - Czech Republic, 2009.
17. Hung Tran Doan, Dora Kroisová, Petr Louda, **Xiem Nguyen Thang**, Oleg Bortnovsky, Petr Bezucha: "Effect of temperature of curing on flexual properties of thermal silica based geopolymer-carbon fiber as reinforcement. 4th International Conference on Vacuum and Plasma Surface Engineering (VaPSE 2009), ISBN 978-80-7372-524-2 (CD version), Liberec - Czech Republic, 2009.
18. **Xiem Nguyen Thang**, et al., "Effects of temperature and plasma treatment on mechanical properties of ceramic fibers". 4th International Conference on Vacuum and Plasma Surface Engineering (VaPSE 2009), ISBN 978-80-7372-524-2, Liberec - Czech Republic, 2009.
19. Hung, T. D., Kroisová, D., Bortnovsky, O., Louda, P., and **Xiem, N. T**, “Primary abilities of thermal sustainment of composites based on geopolymer matrices”, 3rd International Conference on Vacuum and Plasma Surface Engineering (VaPSE 2008),  ISBN 978-80-7372-398-9. Liberec – Czech Republic, 2008

**Czech Republic patents**

1. Petr Louda, Dora Kroisová, Tran Doan Hung, **Thang Xiem Nguyen**. 2011. High strength geopolymer composites. Publish No: 2011-24194, Czech Republic.
2. Petr Louda, Dora Kroisová, Tran Doan Hung, **Thang Xiem Nguyen**. 2011. High strength geopolymer composites. Publish No: 2011-24195, Czech Republic.
3. Petr Louda, Dora Kroisová, Tran Doan Hung, **Thang Xiem Nguyen**. 2011. High strength geopolymer composites. Publish No: 2011-24196, Czech Republic.
4. Petr Louda, Dora Kroisová, Tran Doan Hung, **Thang Xiem Nguyen**. 2011. High strength geopolymer composites. Publish No: 2011-24197, Czech Republic.
5. Petr Louda, Dora Kroisová, Tran Doan Hung, **Thang Xiem Nguyen**. 2011. High strength geopolymer composites. Publish No: 2011-24198, Czech Republic.
6. Louda, P., Jersák, J., and **Nguyen, T.X.** 2011. Superfinišovací nástroj. Publish No: 2011-25376, Czech Republic.