

*Research Paper*



**DIGITAL LITERACY AND TPACK'S IMPACT ON  
PRESERVICE ELEMENTARY TEACHERS' ABILITY TO  
DEVELOP SCIENCE LEARNING TOOLS**

Authors

**Sarah Fazilla, S.Si., M.Pd. (IAIN Lhokseumawe, Lhokseumawe)**

**Anita Yus, M.Pd. (Universitas Negeri Medan, Medan)**

**Muthmainnah, S.Si., M.Pd. (Universitas Bina Bangsa Getsempena, Banda Aceh)**

**Licensed to:  
Institution of Research and Community Services  
Bina Bangsa Getsampena University  
Banda Aceh, 2022**