

**The electrical productivity of Arabica coffee grounds battery based on electrode distance and dryness level**

*Ishak Pawarangan, Martina Pineng, Saiful Achmad Anum*

**Exploring students' argumentation skills using Instagram-based learning**

*Zayyinul Mushthofa, Susilo, Ellianawati*

**Utilization of PhET simulation in flipped classroom to improve students' critical thinking skills**

*Adi Jufriansah, Lensiana Lering, Pujianti B. Donuata*

**Development of Arduino Uno-based real learning media for measuring density of objects**

*Matsun, Boisandi, Ira Nofita Sari, Soka Hadiati, Mikael Trimon Zadrianus*

**System analysis and testing of the benefits of online learning based on madrasah e-learning on physics subjects at MAN 2 Semarang City**

*Muhammad Luthfi, Susilawati, Arsini*

