



CURRICULUM VITAE

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Biography

Scopus of the Last 5 Years

Tiny (ZnO)_n clusters supported on graphene for solar energy trapping: A density functional theory study. Journal of the Taiwan Institute of Chemical Engineers, Jonuarti R., 2023

Factor Analysis Affecting the Implementation of the Generative Learning Model with a Cognitive Conflict Strategy in the Computational Physics Course during the COVID-19 Pandemic Era. Educational Administration: Theory and Practice, Akmam A., 2022

Green synthesis of silver nanoparticles from anthocyanin extracts of purple cabbage (brassica oleracea var capitata) and its characteristics for dye-sensitized solar cells (DSSC) application. Journal of Physics: Conference Series, Arsyad W.S., 2022

The Effect of Molecular Orientation in Disperse Red-1 Film on Its Refractive Index. Journal of Physics: Conference Series, Herman H., 2022

Need analysis to develop a generative learning model with a cognitive conflict strategy oriented to creative thinking in the Computational Physics course. Journal of Physics: Conference Series, Akmam A., 2022

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IR emission of Er³⁺ ion-doped fluoroborotellurite glass for communication application. Journal of Non-Crystalline Solids, Yuliantini L., 2021

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Preliminary study of graphene like material fabrication from coconut shell using conventional furnace. Journal of Physics: Conference Series, Hidayat R., 2021

Web of Science (WoS) of the Last 5 Years

Eco-friendly direct-current pulsed electropolymerization of polyaniline nanofibers on synthetic graphite substrate for counter electrode in dye-sensitized solar cells. POLYMER-PLASTICS TECHNOLOGY AND MATERIALS, Fauziah, N; Khasannah, WL; Andari, GA; Fatya, AI; Benu, DP; Steky, FV; Milana, P; Hidayat, R; Suendo, V.;, 2023

Google Scholar of the Last 5 Years

- Tiny (ZnO) n clusters supported on graphene for solar energy trapping: A density functional theory study. *Journal of the Taiwan Institute of Chemical Engineers* 144, 104769, 2023, R Jonuarti, R Kurniawan, Y Darma, R Hidayat, 2023
- Graphene Oxide Based on Biomass Waste: Synthesis and Applications. *Intech Open*, 2023, R Ramli, R Hidayat, 2023
- Factor Analysis Affecting the Implementation of the Generative Learning Model with a Cognitive Conflict Strategy in the Computational Physics Course during the COVID-19 ... *Educational Administration: Theory and Practice* 28 (01), 64-74, 2022, A Akmam, R Hidayat, F Mufit, N Jalinus, A Amran, 2022
- Analysis of Students' Attitudes and Difficulties in Studying Computational Physics. *Berkala Ilmiah Pendidikan Fisika* 10 (1), 34-43, 2022, R Indriani, A Akmam, F Mufit, R Hidayat, SY Sari, 2022
- Need analysis to develop a generative learning model with a cognitive conflict strategy oriented to creative thinking in the Computational Physics course. *Journal of Physics: Conference Series* 2309 (1), 012095, 2022, A Akmam, R Hidayat, F Mufit, N Jalinus, A Amran, 2022
- Analysis of student's creative thinking ability in computation physics course. *Gravity: Jurnal Ilmiah Penelitian dan Pembelajaran Fisika* 8 (2), 2022, RM Putri, A Akmam, F Mufit, SY Sari, R Hidayat, 2022
- Graphene Oxide Based on Biomass Waste: Synthesis and Applications. *IntechOpen*, 2022, R Ramli, R Hidayat, 2022
- Preliminary study of graphene like material fabrication from coconut shell using conventional furnace. *Journal of Physics: Conference Series* 1876 (1), 012005, 2021, R Hidayat, FU Jhora, AD Pangestuti, 2021
- Problems of students in following the online learning process in the covid-19 pandemic. *Journal of Physics: Conference Series* 1876 (1), 012083, 2021, A Akmam, R Hidayat, F Mufit, N Jalinus, A Amran, 2021
- Kepraktisan Video Pembelajaran Kalkulus untuk Fisika dalam Proses Belajar Daring pada Masa Pandemi Covid-19. *Jurnal Eksakta Pendidikan (Jep)* 5 (1), 110-117, 2021, R Hidayat, PD Sundari, FU Jhora, H Hidayati, 2021
- The Improvement of Physics Teachers' Competence in Developing an Interactive Recitation Programs to Remediate Students' Misconception. *Indonesian Journal of Science and Mathematics Education* 4 (3), 242-252, 2021, PD Sundari, WS Dewi, D Saputra, R Hidayat, 2021
- Primary and Secondary Education During COVID-19 (Disruptions to Educational Opportunity During a Pandemic. *Education* 3-13, 2-2, 2021, N Irawan, R Hidayat, 2021

Research of the Last 5 Years

- Pengembangan Learning Physics Game Bermuatan Literasi Saintifik Dalam Rangka Meningkatkan Pemahaman Konsep Fisika Siswa Sma. Pd-penelitian Dasar, Leader: Renol Afrizon, Implementation Year: 2022
- Pengembangan Model Pembelajaran Generatif Berstrategi Konflik Kognitif Berorientasi Berpikir Kreatif Mahasiswa Pada Mata Kuliah Komputasi Fisika. Pd-penelitian Dasar, Leader: Akmam Akmam, Implementation Year: 2022
- Pengembangan Model Pembelajaran Generatif Berstrategi Konflik Kognitif Berorientasi Berpikir Kreatif Mahasiswa Pada Mata Kuliah Komputasi Fisika. Pdpt-penelitian Dasar, Leader: Akmam Akmam, Implementation Year: 2021

Community Service of the Last 5 Years

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IPR's of the Last 5 Years

Asthma Control: Sistem Pemantauan Pernafasan Untuk Pasien Asma Berbasis IoT Guna Mewujudkan SDGS 2030. Inventor: TEGAR PUTRA SOCRATES; TEFA PUTRI SOCRATES; MUHAMMAD AZKI; Rahmat Hidayat, S.Pd., M.Si., Publication Date: 2022-06-20

ATHYNOS: Media Pembelajaran Berbasis Augmented Reality Dan Serious Game Untuk Meningkatkan Kemampuan Matematika Anak Diskalkulia Pada Siswa SD Di Era New Normal. Inventor: TEGAR PUTRA SOCRATES; AFDHAL AZRIANTO; M. FAIZ JIHADI A; Rahmat Hidayat, S.Pd., M.Si., Publication Date: 2022-06-20

Smart Detector: Pendeteksi Ujian Anti Nyontek Berbasis IoT Dan Biosecurity Management Guna Mewujudkan Indonesia Berbudaya Menuju Era Society 5.0. Inventor: TEGAR PUTRA SOCRATES; RIO FAHLEVI; RIZIQUL IKRAM; Muhammad Irvan Wahyudhie; Rahmat Hidayat, S.Pd., M.Si., Publication Date: 2022-06-20

Book of the Last 5 Years

Fisika Komputasi. ISBN: 9786233729567, Publisher: PT. RajaGrafindo Persada Depok, Year: 2023