



## CURRICULUM VITAE

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**Faculty:** Fakultas Matematika dan IPA

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### Biography

#### Scopus of the Last 5 Years

Tiny (ZnO)<sub>n</sub> 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

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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

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Design of a simple and low cost electrical property tester for graphene material : a preliminary study. Journal of Physics: Conference Series, Hidayat R., 2020

Effects of interface state density on the carrier transport and performance of metal-insulator-semiconductor (MIS) type thin film solar cells. Journal of Physics: Conference Series, Oktasendra F., 2020

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### 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

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Photostabilization of phycocyanin from *Spirulina platensis* modified by formaldehyde. PROCESS BIOCHEMISTRY, Munawaroh, HSH; Gumilar, GG; Alfia, CR; Marthania, M; Stellasary, B; Yuliani, G; Wulandari, AP; Kurniawan, I; Hidayat, R; Ningrum, A; Koyande, AK; Show, PL., 2020

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### 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

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Graphene Oxide Based on Biomass Waste: Synthesis and Applications. Intech Open, 2023, R Ramli, R Hidayat, 2023

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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

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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

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### Research of the Last 5 Years

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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

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Studi Pengaruh Suhu Annealing Terhadap Sifat Grafena Hasil Sintesis Limbah Tempurung Kelapa. Penelitian Pemula, Leader: Rahmat Hidayat, Implementation Year: 2020

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### 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

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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

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### Book of the Last 5 Years

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

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