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Prof. Ir. Indra Surya, M.Sc., Ph.D. dilahirkan di Palembang pada tanggal 09 Juni 1963 dan merupakan seorang dosen dengan bidang Teknik Kimia di Universitas Sumatera Utara. Beliau menyelesaikan pendidikan terakhirnya pada jenjang Doktor (S3), bidang ilmu Getah dan Lateks, di USM pada tahun 2016.

Publications

2026
Jurnal internasional bereputasi

Archidendron pauciflorum shell chemically modified with KOH to fabricate sustainable activated carbon: Functional properties and continuous methylene blue adsorption studies

INDRA SURYA , MARIANA , Tata Alfatah ST., MT., Ph.D

2026
Prosiding seminar internasional

Modified palm stearin for enhanced crosslinks, mechanical and ageing resistance of carbon black - Styrene butadiene rubber compound

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2026
Prosiding seminar internasional

Enhanced Rubber-to-Filler Interaction in Carbon Black-Reinforced Epoxidized Natural Rubber Using Ethanolamine Modified Palm Stearin

INDRA SURYA , MUHAMMAD HENDRA S GINTING

2025
Jurnal internasional bereputasi

The Tear and Tensile Strengths of Silica Fly Ash Reinforced Natural Rubber Vulcanizate

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2025
Prosiding seminar internasional

The effects of ethanolamine-modified stearin on tensile and ageing behaviours of natural rubber

INDRA SURYA , MARPONGAHTUN

2025
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The Curing and Reinforcement Behaviours of Compound of Natural Rubber-Silica in the Presences of Epoxidized Natural Rubbers

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he Curing and Reinforcement Behaviours of Compound of Natural Rubber-Silica in the Presences of Epoxidized Natural Rubbers

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The application of ethanolamine-modified stearin on the compounding of natural rubber: Mechanical and Crosslinking behaviours

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The Effects of Ethanolamine-Modified Stearin on Tensile and Ageing Behaviours of Natural Rubber

MARPONGAHTUN , INDRA SURYA , ARIS WARSITA

2025
Prosiding seminar internasional

The making of ethanolamine-modified stearin and its application in natural rubber technology

MARPONGAHTUN , INDRA SURYA

2025
Prosiding seminar internasional

The Application of Ethanolamine-Modified Stearin on the Compounding of Natural Rubber: Mechanical and Crosslinking Behaviours

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Jurnal internasional bereputasi

Biochar-layered double hydroxide vs biochar-layered double oxide: a critical review on their applications in water pollution control

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Jurnal internasional

High surface area activated carbon derived from sustainable Kappaphycus alvarezii via one-step NaOH activation for efficient methylene blue adsorption

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Structural and chemical properties of kappa-carrageenan extracted from macroalgae by deep eutectic solvents and sustainable biopolymer films produced thereof

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Increased Rubber-Filler Interaction of the Compound of Natural Rubber-Silica by Aminopropyltriethoxy Silane

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The Potency of Fatty Alcohol Compounds to Improve the Silica Dispersion in the Compound of Natural Rubber with Silica

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2025
Artikel ilmiah

The potency of fatty alcohol compounds to improve the silica dispersion in the compound of natural rubber with silica

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The Effect of Aptes-Silane on Tensile and Ageing Properties of the Compound of Natural Rubber-Silica

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Processing characteristics and mechanical properties of styrene butadiene rubber filled with varying amounts of silica

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Synergistic effect of amine-modified palm stearin and carbon black in natural rubber reinforcement applying different cure systems

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Jurnal internasional bereputasi

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AHMAD TAWFIEQURRAHMAN YULIANSYAH , INDRA SURYA , YUDHA GUSTI WIBOWO , HIMAWAN TRI BAYU MURTI PETRUS , DEDY ANWAR , Hana Safitri , Sudibyo Sudibyo

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Jurnal internasional bereputasi

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Physico-chemical and thermal degradation characteristics of marine red macroalgae for sustainable packaging applications

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Eco-friendly approach for carboxymethyl cellulose isolation from durian peel waste and aerogel scaffold preparation

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Jurnal internasional bereputasi

Green Thermal Insulators; Insights into the Role of Biopolymer-based aerogels in Thermal Insulation Applications

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The Role of Natural Fibre Reinforcement in Thermoplastic Elastomers Biocomposites

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Jurnal internasional bereputasi

Microwave-assisted sodium alginate extraction from Dictyota menstrualis and the fabrication of green thermal insulators

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Fatty alcohols as sustainable compatibilizer agents for the compound of natural rubber/silica: The curing, rubberiness and tensile strength behaviours

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The properties of hardness and swelling of styrene butadiene rubber/silica/oleamide composites

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Oleamide as an Environment-friendly Additive for Styrene Butadiene Rubber/Silica Compound: The Strength and Elasticity Behaviours

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Extraction and characterization of silicon dioxide based on a bottom ash waste of a palm oil mill boiler

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Studying on the carbon black-reinforced styrene butadiene rubber: Effect of stearamide adding on the rheological behavior

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The stearamide adding for improving the strength of styrene butadiene/carbon black compounds

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Synthesis and Characterization of Precipitated Silica from Coal Fly Ash

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Viable Properties of Natural Rubber/Halloysite Nanotubes Composites Affected by Various Silanes

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The using of oleamide for improving the strength of natural rubber/silica vulcanizates

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Effect of oleamide on the torques behaviors of natural rubber/precipitated silica compounds

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Sustainable Recycling of Waste from Nitrile Gloves: Prolonging the Life Span by Designing Proper Curing Systems

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Hydrophobicity and Biodegradability of Silane-Treated Nanocellulose in Biopolymer for High-Grade Packaging Applications

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Microstructure-Properties of Dynamically Vulcanized Mengkuang Leaf Fibre/Ethylene Vinyl Acetate/Natural Rubber Thermoplastic Elastomer Composites

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Reducing the Payne Effect of the Natural Rubber/Sepiolite Composite by Introducing Modified Palm Stearin

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Jurnal internasional bereputasi

Selectively etched halloysite nanotubes as performance booster of epoxidized natural rubber composites

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Prosiding seminar internasional

Silica-loaded styrene-butadiene rubber in the incorporation of stearamide: The torque properties

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2020
Prosiding seminar internasional

The incorporations of palmitamide as a rubber chemical into carbon black-loaded styrenebutadiene rubber: cure rate index and torque properties

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2020
Prosiding seminar internasional

The Carbon Black-Loaded Styrene-Butadiene Rubber in The Addition of Palmitamide: The Cure Characterization

INDRA SURYA , KARTINI NOOR HAFNI

2020
Prosiding seminar internasional

Effects of Modified Palm Stearin on Torque Properties of Carbon Black-loaded Epoxidized Natural Rubber

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2020
Jurnal internasional bereputasi

PREPARATION, CHARACTERISATION AND APPLICATION OF GLUT PALMITATE AS A COUPLING AGENT IN NATURAL RUBBER COMPOSITES

INDRA SURYA

2019
Artikel ilmiah

Improvements in the degree of filler dispersion and tensile properties of N550 and N220 carbon blacks-filled natural rubber composites using alkanolamide

INDRA SURYA , MARPONGAHTUN

2019
Artikel ilmiah

Effect of epoxidised natural rubbers on curing characteristics of kaolin-filled natural rubber composites

MARPONGAHTUN , LILIS SUKEKSI , INDRA SURYA

Researches

2022
Penelitian Dana Lokal Perguruan Tinggi

Pembuatan Sediaan Sabun Mandi Cair dengan Bahan Baku Minyak Kelapa dan Ekstrak Daun Sirih (Piper Betle L.)

LILIS SUKEKSI , HAMIDAH HARAHAP , INDRA SURYA

Community Services

2020
Ipteks Bagi Masyarakat

PEMANFAATAN LIMBAH KANTIN DHARMA WANITA FAKULTAS TEKNIK USU SEBAGAI ENERGI ALTERNATIF DAN KOMPOS UNTUK MENDUKUNG GREEN CAMPUS

BAMBANG TRISAKTI , IRVAN , INDRA SURYA

2016
Ipteks Bagi Masyarakat

Peningkatan Kualitas Pembuatan dan Pemasaran Susu Soya Dengan Merek Soyaku

LILIS SUKEKSI , INDRA SURYA