



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
RISET, DAN TEKNOLOGI

UNIVERSITAS JEMBER

Jalan Kalimantan 37 Kampus Tegalboto Kotak Pos 159 Jember 68121
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Lektor Kepala

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Alamat Kantor : Gedung Program Studi Teknik Mesin Fak. Teknik
UNEJ

PENDIDIKAN

- S.T., INSTITUT TEKNOLOGI SEPULUH NOPEMBER, INDONESIA, 2001
- M.T., UNIVERSITAS INDONESIA, INDONESIA, 2006
- Dr., UNIVERSITAS INDONESIA, INDONESIA, 2015

MATA KULIAH YANG DIAMPU

Tahun	Semester	Mata Kuliah	SKS	Program Studi
2024	Ganjil	Ilmu Bahan	2	Teknik Mesin
2024	Ganjil	Komposit	2	Teknik Mesin
2024	Ganjil	Logam	2	Teknik Mesin
2024	Ganjil	Pengecoran dan Metalurgi Serbuk	2	Teknik Mesin
2024	Ganjil	Teknologi Pengelasan	2	Teknik Mesin
2024	Ganjil	Fisika Metalurgi	3	Magister Teknik Mesin
2024	Ganjil	Polimer	3	Magister Teknik Mesin

PENGALAMAN PENELITIAN

Tahun	Judul Penelitian	Status	Sumber Dana	Besarnya Dana
2023	Pengembangan Komposit Sabut Kelapa-serat Karbon Sebagai Material Alternatif Bodi Mobil Listrik Yang Ramah Lingkungan	Ketua	Hibah KeRis - DiMas	25.500.000



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2023	Re-desain Sintesis Biokomposit Ampas Tebu/bentonite Berbantuan Gelombang Mikro Sebagai Biosorben Magnetik Logam Berat Di Air Limbah Industri Elektroplating Pt Gudang Seng Sra	Anggota	Program Penelitian Inovasi Industri	45.000.000
2022	Antioxidant Activity And Tannin Profile Investigation Of Ethanol Extract From Cocoa Peel Waste (theobroma Cacao L.) Using Microwave-assisted Extraction Method	Anggota	Hibah Reworking Skripsi/Tesis	14.000.000
2022	Peningkatan Kinerja Ekstraksi Biopolimer Ulvan Dari Ulva Sp. Menggunakan Metode Microwave-ultrasound Extraction (mue) Sebagai Material Plastik Biodegradable	Anggota	Hibah Dosen Pemula	17.100.000
2022	Pengembangan Edible Film Biokomposit Soy Lecithin/pati Singkong Dengan Pengisi Serat Ampas Tebu Sebagai Produk Kemasan Pangan Ramah Lingkungan (biodegradable)	Anggota	Hibah Penelitian Pasca Doktor (PPD)	26.500.000
2022	Pengembangan Komposit Aluminium Berbasis Nano Al ₂ O ₃ Sebagai Material Alternatif Yang Ringan Dan Berkekuatan Tinggi	Ketua	Hibah Program Pascasarjana	42.500.000
2022	Pengembangan Selulosa Nanofiber Ampas Tebu Sebagai Material Pengisi Bioplastik Bermatriks Biopolimer Pati	Anggota	Hibah Pendukung IDB	62.500.000
2021	Aplikasi Komposit Al 2017 /al ₂ O ₃ Sebagai Bahan Piston Kendaraan Bermotor	Anggota	Hibah KeRis - DiMas	24.780.000
2021	Pengaruh Penambahan Serbuk Nano Sic Terhadap Karakteristik Material Komposit Al-nanosic/anyaman Kawat Ss 304	Ketua	Hibah KeRis - DiMas	25.500.000
2020	Pembuatan Nanopartikel Zno Dengan Menggunakan Metode Sol-gel	Ketua	Hibah KeRis - DiMas	25.000.000
2020	Pengaruh Volume Fraksi Sic Dan Penambahan Mg Terhadap Karakteristik Komposit Alsi-sic	Anggota	Hibah KeRis - DiMas	27.400.000
2020	Pengaruh Perlakuan T6 Terhadap Karakterisasi Komposit Al6061/sic	Anggota	Hibah KeRis - DiMas	27.500.000
2017	Pengembangan Komposit Aluminium Berbasis Partikel Nano Al ₂ O ₃	Ketua	Hibah Fundamental	100.000.000
2016	Pengembangan Komposit Aluminium Berbasis Partikel Nano Al ₂ O ₃	Ketua	Hibah Fundamental	60.000.000
2016	Pembuatan Serbuk Nanopartikel Seng Oksida Sebagai Material Pendukung Energi Terbaru	Pembina	Hibah Penelitian Pembinaan	9.700.000



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PENGALAMAN PENGABDIAN

Tahun	Judul Pengabdian	Status	Sumber Dana	Besarnya Dana
2019	Pkm Kelompok Usaha Kopi Arabika Bondowoso Di Desa Tanah Wulan Kecamatan Maesan Kabupaten Bondowoso Provinsi Jawa Timur	Ketua	DRPM - Program Kemitraan Masyarakat(PKM)	0
2017	Pelatihan Pengelasan Bagi Masyarakat Di Desa Tegalgede Kabupaten Jember	Ketua	Mandiri	4.000.000

PENGALAMAN PENDANAAN INTERNATIONAL

Tahun	Judul	Status	Sumber Dana	Besarnya Dana
2023	Fabrikasi Dan Karakterisasi Komposit Filamen 3d Printing Berbasis Pla Dan Serat Selulosa Ampas Tebu Untuk Aplikasi Biomedis	Anggota	Hibah Penelitian Kerjasama Internasional	71.892.000

LUARAN PENELITIAN DAN PENGABDIAN

A. Jurnal Nasional

- M Fahrur Rozy Hentihu, Dedi Dwilaksana, Mochamad Asrofi, Salahuddin Junus, Rahma Rei Sakura, Skriptyan Noor Hidayatullah Syuhri, Danang Yudistiro, Taufik. 2023. Penigkatan Kualitas Produk Material Komposit Fiberglass Menggunakan Vaccum Assisted Resin Infusion di Industri Wangi Fiberglass Banyuwangi. Medani: Jurnal Pengabdian Masyarakat. 2(3). <https://doi.org/10.59086/jpm.v2i3.366>
- Yuni Hermawan, Salahuddin Junus, Nasrul Ilminnafik, Muh. Nurkoyim Kustanto, . 2023. A study on Flame Characteristics Premixed Burning by Giving Magnetic Field Induction. Polimesin. 21(2). <https://e-jurnal.pnl.ac.id/polimesin/article/view/3497>
- Yuni Hermawan, Nasrul Ilminnafik, Muh. Nurkoyim Kustanto, Salahuddin Junus, . 2023. Study of Premix Combustion Flame Characteristics with Magnetic Field Induction. Polimesin. 2(21). <https://e-jurnal.pnl.ac.id/polimesin/article/view/3497>
- Yuni Hermawan, Nasrul Ilminnafik, Muh. Nurkoyim Kustanto, Salahuddin Junus, . 2023. Experimental Study on the Effect of Magnetic Fields on Combustion Characteristics of Biodiesel from Nyamplung (Calophyllum Inophyllum). Automotive Experience. 6(1). <https://journal.unimma.ac.id/index.php/AutomotiveExperiences/article/view/8328>
- Salahuddin Junus, Dwi Djumhariyanto, Gaguk Jatisukamto, Robertus Sidartawan, Ahmad Wafi.



2022. PENGARUH Mg DAN PENAMBAHAN FRAKSI VOLUME SiC TERHADAP SIFAT MEKANIK KOMPOSIT Al6061/SiC. Stator. 5(1).

- Yuni Hermawan, Mochamad Asrofi, Sujito, Santoso Mulyadi, Salahuddin Junus, Devita Amelia, Afril Priyanto. 2021. Aplikasi Serat Alam Muntingia calabura sebagai Pengisi dalam Biokomposit Bermatriks Polivinil Alkohol (PVA): Karakteristik Sifat Kuat Tarik dan Permukaan Patahan. Agroteknika. 4(1). <https://doi.org/10.32530/agroteknika.v4i1.103>
- Salahuddin Junus, Sujito, Santoso Mulyadi, Yuni Hermawan, Mochamad Asrofi, Afril Priyanto, Devita Amelia. 2021. Aplikasi Serat Alam Muntingia calabura sebagai Pengisi dalam Biokomposit Bermatriks Polivinil Alkohol (PVA): Karakteristik Sifat Kuat Tarik dan Permukaan Patahan. Agroteknika. 4(1).
- Salahuddin Junus, Rahma Rei Sakura, Gaguk Jatisukanto, Rahma Rei Sakura, Gaguk Jatisukanto, Salahuddin Junus, . 2018. PENGARUH VARIASI WAKTU GESEK FRICTION WELDING PADA BAJA AISI 1045 DENGAN SUDUT CHAMFER 15 TERHADAP SIFAT MEKANIKNYA. JURNAL ELEMEN. 4(2).
- Ahmad Adib Rosyadi, Salahuddin Junus, . 2018. Pengaruh Fraksi Volume Fiber Glass Terhadap Sifat Mekanik Komposit Fiber Glass/Epoxy dengan Metode Vari. STATOR. 1(1). <https://jurnal.unej.ac.id/index.php/STATOR/issue/view/649>
- Salahuddin Junus, Imam Sholahuddin, Santoso Mulyadi, Agung Budi Cahyono. 2017. Pengaruh Elektroda Tembaga pada DC Thermal Plasma dan Variasi Waktu Proses Terhadap Laju Produksi Alumina. Jurnal Elemen. 4(2).
- Aris Zainul Muttaqin, Imam Sholahuddin, Salahuddin Junus, Arief Ginanjar Dirgantara. 2017. Pengaruh Laju Prekursor Serbuk Aluminium Terhadap Bentuk Morfologi Nanopartikel Alumina dengan Metode Thermal Plasma. ROTOR: Jurnal Ilmiah Teknik Mesin. 10(1). <https://jurnal.unej.ac.id/index.php/RTR>
- Salahuddin Junus, Aris Zainul Muttaqin, Imam Sholahuddin, . 2017. PENGARUH LAJU PREKURSOR SERBUK ALUMINIUM TERHADAP BENTUK MORFOLOGI NANOPARTIKEL ALUMINA DENGAN METODE THERMAL PLASMA. ROTOR. 10(1). <https://jurnal.unej.ac.id/index.php/RTR>
- Franciscus Xaverius Kristianta, Salahuddin Junus, Rochmad Eko PU. 2016. Pengaruh Magnesium Terhadap Kekerasan dan Ketahanan Aus Komposit Aluminium 6061/nano-Al₂O₃ Dengan Metode Stir Casting. ROTOR. Edisi Khusus(2). .
- Gaguk Jatisukanto, Salahuddin Junus, . 2016. Pengaruh Waktu Gesek Friction Welding Terhadap Karakterisasi Baja AISI 1045 dengan Sudut Chamfer 15. ROTOR (Jurnal Ilmiah Teknik Mesin). 9(2). <https://jurnal.unej.ac.id/index.php/RTR/issue/view/662>
- Salahuddin Junus, Anne Zulfia, Melisa, Lilis Mariani. 2014. Pengaruh Waktu Aging Terhadap Kekerasan dan Struktur Mikro Komposit Al-Si-Mg/AL₂O₃ dengan Metode Stir Casting. Rotor. 7(2).
- Nasrul Ilminnafik, Salahuddin Junus, KURNIA DWI ARTIKA, . 2012. KAJIAN DAYA INHIBISI Na₂CrO₄ TERHADAP LAJU KOROSI BAJA KARBON NS 1045 PADA MEDIA H₂SO₄. Jurnal Teknologi dan Industri. 2(1). <http://jurnal.politala.ac.id/index.php/JTI/article/view/17>



B. Jurnal Internasional

- R. Puranggo Ganjar Widityo, Robertus Sidartawan, Rahma Rei Sakura, Mochamad Asrofi, Salahuddin Junus, Gindeka Bimara, Rizky Akhmad Prayogi. 2023. Effect of Current, Time, Ethanol Concentration, and pH Electrolyte on ZnO Coated Carbon Fiber Using Electrochemical Deposition Method . Mechanical Engineering for Society and Industry . 3(2). <https://journal.unimma.ac.id/index.php/mesi/article/view/10493>
- Digdo Listyadi Setyawan, Mochamad Asrofi, Rahma Rei Sakura, Dedi Dwilaksana, Franciscus Xaverius Kristianta, Salahuddin Junus, Nasrul Iminnafik, Dr. Melbi Mahardika, S.T., Dr. Putri Amanda, R.A. Ilyas, PhD. 2023. Edible Film Biocomposite based on Cassava Starch/Soy Lecithin Reinforced by Sugarcane Bagasse Fiber: Mechanical, Morphological and Moisture Properties. BIO Web of Conferences. 69(03019). <http://dx.doi.org/10.1051/bioconf/20236903019>
- Salahuddin Junus, Yuni Hermawan, Muh. Nurkoyim Kustanto, Nasrul Iminnafik, . 2023. CHARACTERIZATION OF PREMIXED FLAMES WITH ETHANOL FUEL AFFECTED BY MAGNETIC FIELD INDUCTION. International Journal of Emerging Trends in Engineering Research(IJETER). 11(2). <https://www.warse.org/IJETER/>
- Muh. Nurkoyim Kustanto, Yuni Hermawan, Salahuddin Junus, Nasrul Iminnafik, . 2023. Characterization of Premixed Flames with Ethanol Fuel affected Magnetic Field Induction. IJETER. 11(2). <https://www.warse.org/IJETER/static/pdf/file/ijeter011122023.pdf>
- Nasrul Iminnafik, Yuni Hermawan, Muh. Nurkoyim Kustanto, Salahuddin Junus, . 2023. The Effect of Magnetic Field on Premixed Flame of Biodiesel Fuel Calophyllum Inophyllum B0, B50, and B100. IJETER. 11(2). [https://www.warse.org/IJETER/archives/archivesDetiles/?heading=Volume%2011%20No.2%20\(2023\)](https://www.warse.org/IJETER/archives/archivesDetiles/?heading=Volume%2011%20No.2%20(2023))
- Robertoes Koekoeh Koentjoro Wibowo, Salahuddin Junus, , Ali Aqsho Hudzaifi . 2022. Effect of Disk Rotation Speed and Diameter of Grinding Ball with Planetary Ball Mill Method on the Characteristics of ZnO Nanoparticles. Gongcheng Kexue Yu Jishu/Advanced Engineering Science Journal. 54(-).
- Danang Yudistiro, Salahuddin Junus, Pai-Chen Lin, Wojciech Z, Misiolek, Jia-Yuan Wei, Shinichiro Masuno, Masahiro Tsukamoto, Eiji Hori, Yuji Sato, Yuan Tao. 2022. Blue Diode Laser Welding of Commercially Pure Titanium Foils. Quantum Beam Science. 6(3).
- Gaguk Jatisukanto, Mahros Darsin, Nasrul Iminnafik, Salahuddin Junus, Aidin Bentar, Fabrobi F.Ridha. 2022. Analysis of Rice Straw and Ijuk Fiber Composite for Lightweight Material Applications. Gongcheng Kexue Yu Jishu/Advanced Engineering Science Journal. 54(-).
- Hari Arbiantara Basuki, Mahros Darsin, Salahuddin Junus, Rika Dwi Hidayatul Qoryah, Yuni Hermawan, , . 2022. Optimizing the Surface Roughness AISI 4340 Steel on Turning Process under Minimum Quantity Lubrication (MQL). Materials Science Forum. 1057(). <https://www.scientific.net/MSF.1057.167>
- Hari Arbiantara Basuki, Salahuddin Junus, Mahros Darsin, Rika Dwi Hidayatul Qoryah, Yuni



- Hermawan, . 2022. Optimizing the Surface Roughness AISI 4340 Steel on Turning Process under Minimum Quantity Lubrication (MQL). Materials Science Forum. 1057(-). <https://www.scientific.net/MSF.1057.167>
- Sumarji, Mochamad Asrofi, Robertus Sidartawan, Salahuddin Junus, Santoso Mulyadi, Sujito, Dr. Nur Abdillah Siddiq, Prof. Dr. S.M. Sapuan, Dr. R.A. Ilyas, Jan Fernando Saragih, S.T.. 2022. Tensile Strength and Thermal Resistance Analysis of Polylactic Acid (PLA) and Cassava Starch with Cellulose Paper Sugarcane Bagasse as Filler. Gongcheng Kexue Yu Jishu/Advanced Engineering Science. 54(01). <https://www.gkyj-aes-20963246.com/article/tensile-strength-and-thermal-resistance-analysis-of-poly-lactic-acid-pla-and-cassava-starch-with-cellulose-paper-sugarcane-bagasse-as-filler>
 - Salahuddin Junus, Nasrul Iminnafik, . 2021. Performance and Emissions of Mixed Ethanol-Biodiesel Calophyllum Inophyllum Fueled Diesel Engine. International Journal of Emerging Trends in Engineering Research. 9(8). <http://www.warse.org/IJETER/static/pdf/file/ijeter16982021.pdf>
 - Salahuddin Junus, Robertoes Koekoeh Koentjoro Wibowo, Fabrobi Ridha, Agung Budi Cahyono. 2021. The Effect of Production Parameters on DC Thermal Plasma Nanomaterial Synthesis. ARPN Journal of Engineering and Applied Sciences. 16(13). http://www.arpnjournals.com/jeas/volume_13_2021.htm
 - Robertoes Koekoeh Koentjoro Wibowo, Salahuddin Junus, Fabrobi Ridha, Agung Budi Cahyono. 2021. THE EFFECT OF PRODUCTION PARAMETERS ON DC THERMAL PLASMA NANOMATERIAL SYNTHESIS. ARPN Journal of Engineering and Applied Sciences. 16(13). http://www.arpnjournals.com/jeas/volume_13_2021.htm
 - Mahros Darsin, Salahuddin Junus, . 2021. Synthesis of Zinc Oxide (ZnO) Nanoparticle using Non-Transferred DC Thermal Plasma Method: A Morphology Review. International Journal of Emerging Trends in Engineering Research. 9(7). <https://doi.org/10.30534/ijeter/2021/23972021>
 - Nasrul Iminnafik, Muh. Nurkoyim Kustanto, Salahuddin Junus, . 2021. Experimental Study on the Effect of Nano Additives $\gamma\text{Al}_2\text{O}_3$ and Equivalence Ratio to Bunsen Flame Characteristic of Biodiesel from Nyamplung (Calophyllum Inophyllum). Automotive Experiences. 4(2).
 - Muh. Nurkoyim Kustanto, Salahuddin Junus, Nasrul Iminnafik, . 2021. Experimental Study on the Effect of Nano Additives $\gamma\text{Al}_2\text{O}_3$ and Equivalence Ratio to Bunsen Flame Characteristic of Biodiesel from Nyamplung (Calophyllum Inophyllum). Automotive Experiences. 4(2). <https://journal.unimma.ac.id/index.php/AutomotiveExperiences/article/view/4569>
 - Muh. Nurkoyim Kustanto, Salahuddin Junus, Nasrul Iminnafik, . 2021. Experimental Study on the Effect of Nano Additives $\gamma\text{Al}_2\text{O}_3$ and Equivalence Ratio to Bunsen Flame Characteristic of Biodiesel from Nyamplung (Calophyllum Inophyllum). Automotive Experiences. 4(2). <https://doi.org/10.31603/ae.4569>
 - Welayaturromadhona, Gaguk Jatisukanto, Salahuddin Junus, Prasetya EkaIndradiant, Ahmad Fitoyo. 2021. Analysis of Strontium Addition on Al-Si-MG Aluminum Alloys. ARPN Journal of Engineering and Applied Sciences. 16(9). http://www.arpnjournals.com/jeas/volume_09_2021.htm
 - Salahuddin Junus, Agus Triono, A. Fitoyo. 2021. Design analysis of vibrational input to torque



energy system. Journal of Physics: Conference Series. 1858().
<https://iopscience.iop.org/article/10.1088/1742-6596/1858/1/012041>

- Sumarji, Mochamad Asrofi, Salahuddin Junus, Rahma Rei Sakura, Ahmad Wafi. 2020. The Effect of Sic and Addition Mg Volume Fraction on Characteristics Al6061-Sic Composite. International Journal of Scientific & Technology Research. 9(04). <http://www.ijstr.org>
- Salahuddin Junus, Nasrul Ilminnafik, . 2019. The Flame Characteristics of Diesel Fuel Blend with Kepuh (Sterculia foetida) Biodiesel. Journal of Mechanical Engineering Science and Technology. 3(2).
- Robertus Sidartawan, Salahuddin Junus, Sumarji, Denni Riyanto. 2019. Influence of Magnesium on Hardness and Microstructure of ADC 12 Alloy Produced by Gravity Casting Method. Materials Science Forum. 951(-). [10.4028/www.scientific.net/MSF.951.101](https://www.scientific.net/MSF.951.101)
- Sumarji, Robertus Sidartawan, Salahuddin Junus, Haidzar. 2019. The Effect of Copper Electrode and HSS Type Electrode on DC Thermal Plasma Methode on the Characteristics of the Nanoparticle Al₂O₃. ARPN Journal of Engineering and Applied Sciences. 14(1). http://www.arpnjournals.com/jeas/volume_01_2019.htm
- Salahuddin Junus, Anne Zulfia, . 2016. Development of Seamless Pipe Based on Al/Al₂O₃ Composite Produced by Stir Casting and Centrifugal Casting. Materials Science Forum. 857(-). <http://www.scientific.net/MSF.857.179>
- Salahuddin Junus, Ahmad Hafeizh E. 2015. Characterization of Al-Si-Mg/Al₂O₃ Nano Composite Produced by Stir Casting Method. Materials Science Forum. 827(-). <https://www.scientific.net/MSF.827.294>
- Salahuddin Junus, Anne Zulfia, Lilis Mariani. 2015. Effect of Magnesium on Hardness and Microstructure of Metal Matrix Composite Al.6061/(Al₂O₃)p Produced by Stir Casting Route. Advanced Materials Research. 1112(-). <https://www.scientific.net/AMR.1112.381>
- Salahuddin Junus, Anne Zulfia, Eric Tanoto, Lilis Mariani. 2013. The Influence of Various Percentage of Al₂O₃ by using Vortex Method to Tensile Strength and The Distribution of Al₂O₃p Composite. Advanced Materials Research. 789(-). <https://www.scientific.net/AMR.789.8>

C. Prosiding Nasional

- Salahuddin Junus, Salahuddin Junus, Franciscus Xaverius Kristianta, Franciscus Xaverius Kristianta, . 2017. Pengaruh Penambahan Variasi Tembaga (Cu) Terhadap Sifat Mekanis Dan Struktur Mikro Aluminium 7075 Dengan Metode Gravity Casting. Inovasi Penemuan Terbaru Di Bidang Keteknikan.

D. Prosiding International

- Yuni Hermawan, Salahuddin Junus, Rika Dwi Hidayatul Qoryah, Mahros Darsin, Hari



Arbiantara Basuki, . 2022. Optimizing the Surface Roughness AISI 4340 Steel on Turning Process under Minimum Quantity Lubrication (MQL). Engineering, Science and Technology.

- Salahuddin Junus, Hari Arbiantara Basuki, Rika Dwi Hidayatul Qoryah, Mahros Darsin, Yuni Hermawan, Mochamad Bayu Ramadhani. 2022. Optimizing the Surface Roughness AISI 4340 Steel on Turning Process under Minimum Quantity Lubrication (MQL). .
- Salahuddin Junus, Sumarji, Robertus Sidartawan, . 2019. Influence of Magnesium on Hardness and Microstructure of ADC 12 Alloy Produced by Gravity Casting Method. Materials.
- Salahuddin Junus, Santoso Mulyadi, Yuni Hermawan, . 2017. Desain and Stress Analysis Cement Composite On Turning Tools Structure. .

E. Naskah Akademik/Legal Opinion/Memorandum

- Robertus Sidartawan, Salahuddin Junus, . 2018. PENGARUH VOLUME FRAKSI PEREKAT UREA FORMALDEHIDA TERHADAP KEKUATAN TARIK KOMPOSIT PARTIKEL KAYU SENGON . Teknik Mesin Universitas Jember
- Robertus Sidartawan, Salahuddin Junus, muhamad Kurniawan, . 2017. Pengaruh Volume Fraksi Perekat Urea Formaldehida terhadap pengaruh kekuatan tarik komposit partikel kayu sengon. Teknik Mesin Univesitas Jember
- Salahuddin Junus, Robertus Sidartawan, . 2017. PENGARUH VOLUME FRAKSI PEREKAT UREA FORMALDEHIDA TERHADAP KEKUATAN TARIK KOMPOSIT PARTIKEL KAYU SENGON . Teknik Mesin Universitas Jember
- Imam Sholahuddin, Salahuddin Junus, Eric Tanoto. 2016. Pengaruh Serbuk Al₂O₃ Terhadap Kekerasan Komposit Al/Al₂O₃.