RBK FISIKA MATERIAL

Deskripsi

Peminatan ini bertujuan menghasilkan lulusan yang kompeten dalam mengembangkan keilmuan dan ketrampilan yang terkait dengan penelitian bidang material; mampu bekerja secara mandiri, profesional, dan bertanggung-jawab dalam kegiatan penelitian untuk mengembangkan material baru maupun material maju (*advanced material*) dengan memanfaatkan sumberdaya alam lokal yang diperlukan oleh dunia industri. Bidang riset pada peminatan ini, juga fokus pada: ekstrasksi bahan alam, nanomaterial, material logam, material magnetik, material komposit, material keramik, material polimer dan material elektronika; juga penggunaaan metode sintesis dan fabrikasi yang sederhana dan efektif karakterisasi, teori dan permodelan

Personalia		
Tim RBK Fisika Material		
	Z. A. Imam Supardi, Ph.D. (Koordinator)	Keahlian: Material Sains, khususnya super konduktor dan Baterai berbasis bahan alam
	Prof. Dr. Munasir, M.Si. (Anggota)	Keahlian: Material magnetic dan non-magnetik (NPS, MNPs, Graphene), korosi, material absorber gelombang radar, drug delivary system, Baterai skunder, dan material energi; Material elektronik: semikonduktor lapisan tipis dan superkonduktor.
	Dr. Frida Ulfah Ermawati, M.Sc. (Anggota)	Keahlian: Keahlian: Bahan dielektrik keramik dan berbagai aplikasinya pada bidang telkomunikasi satelit di daerah frekuensi gelombang mikro, sistem pertahanan negara (komponen radar, dielektrik resonator oscilallator).
	Diah Hari K, M.Si. (Anggota)	Keahlian: Polimer konduktif, komposit berbasis bahan alam, deposisi lapisan tipis.
	Nugrahani Primary Putri, M.Si. (Anggota)	Keahlian: Polimer konduktik, keramik, dan biosensor

	Lydia Rohmawati, M.Si. (Anggota)	Keahlian: Superkonduktor, superkapasitor, dan komposit berbasis bahan alam

Roadmap Penelitian



Gambar A.6: Peta Jalan Penelitian RBK Fisika Material

Research Projects

1. Komposit Al/SiO_2 berpenguat partikel nanosilika dari bahan alam pasir kuarsa sebagai material anti-korosi pada medium geotermal (2013, DRPM Kemenristek-Dikti)
2. Fabrikasi komposit PANi-SiO_2/Acrylic Paint sebagai material anti korosi pada power plant medium geotermal (2014-2015, DRPM Kemeristek Dikti)
3. Studi porositas -alumina dan -Al_2O_3/SiO_2 orde nano serta prospek aplikasinya (2016, UNESA- BOPTN)
4. Karakterisasi Material Li_5FeO_4 sebagai Bahan Katoda Baterai (2017, UNESA-BOPTN)
5. Struktur dan porositas nanopartikel silika (SiO_2-NPs) untuk temperatur kalsinasi yang bervariasi (2017, UNESA-BOPTN)
6. Fabrikasi *Core-shell*Fe_3O_4@SiO_2Nanopartikel dan Aplikasinya sebagai Filter Air (2017-2019, DRPM Kemenristek-Dikti)
7. Nanokomposit Grafen (rGO/Fe3O4) sebagai kandidat material filter pada proses desalinasi air laut (2019-2021, DRPM Kemenristek-Dikti)
8. Pemanfaatan Lumpur Sidoarjo dan Cangkang Kerang Sebagai Filler Composite Polymer Concrete (2013, Hiber-BOPTN)
9. Sintesis Komposit PVDF/ SiO_2 Bahan Alam untuk Bahan Dielektrik Superkapasitor (2014, Hibah Pekerti, BOPTN)
10. Karakterisasi Komposit Polianilin/Oksida Logam Sebagai Bahan Penyerap Gelombang Mikro (2015, Hiber-BOPTN) (2017)

11. The influence of sample preparation on dielectric properties of $Mg_{0.7}Zn_{0.3}TiO_3$ ceramic.
12. Preparation and structural study of $Mg_{1-x}Zn_xTiO_3$ ceramics and their dielectric properties from 1Hz to 7.7 GHz (2017).
13. A simple dissolved metals mixing route to prepare nanostructured $Mg_{0.8}Zn_{0.2}TiO_3$ solid solution (2015, Hibah Peningkatan Publikasi-Dikti).
14. Pembuatan Alat Penentu Percepatan Gravitasi Bumi Dengan Metode Gerak Jatuh Bebas Berbasis *Personal computer* Pada Praktikum Fisika Dasar I (2012, DIPA-UNESA)
15. Pemanfaatan Lumpur Sidoarjo dan Cangkang Kerang Sebagai Filler *Composite Polymer Concret* (2013, Hibah Bersaing Dikti)
16. Karakterisasi Komposit Polianilin/Oksida Logam Sebagai Bahan Penyerap Gelombang Mikro (2015, Hiber Dikti)
17. Optimasi Pemurnian Nanokalsit Berbahan Dasar Batu Gamping dengan Metode Kopresipitasi (2015, Hiber Dikti)
18. Karbon Sekam Padi Sebagai Bahan Alternatif Katoda Baterai *Rechargeable* (2016, BOPTN FMIPA-UNESA)
19. Pemanfaatan Enceng Gondok sebagai Sensor Kelembaban (2016, BOPTN FMIPA-UNESA)
20. Sintesis *Reduced Graphene Oxide* Berbahan Dasar Limbah Tempurung Kelapa (2017, BOPTN FMIPA-UNESA)
21. Pengaruh Waktu Ultrasonikasi Terhadap Karakteristik rGO Tempurung Kelapa sebagai Elektroda Superkapasitor (2017, BOPTN FMIPA-UNESA)
22. Superkapasitor dengan Elektroda Berbasis Bahan Alam (2017-2018, Hibah Produk Terapan, DRPM Kemenristek-Dikti)
23. Aplikasi Nanopartikel Bahan Alam (Dolomit Bangkalan) Untuk Mendukung Ketersediaan Agen Antibakteri Pada Rongga Mulut (2019, DRPM-BOPTN-UPT)
24. Aplikasi TiO2 Nanotube Bahan Alam (Residu Pasir Ilmenit) Sebagai Agen Antibakteri dan Pemutih Pada Gigi (2019, PNBP UNESA)
25. Nanokomposite Grafen (Rgo/Fe3o4-Sio2) Sebagai Kandidat Material Filter Pada Proses Desalinasi Air Laut (2020, PNPB UNESA)
26. Pengaruh Proses Double Doiler Pada Pengolahan Daun Sirih (Piper Betle L.) untuk Menjaga Kandungan Zat Tanin Sebagai Antiseptik Alami dalam Pembuatan Hand Sanitizer untuk Mencegah Penyebaran covid-19 (2020, PNPB UNESA)

PATEN/HAKI:

1. In-situ fabrication of YBCO thick -films using spray pyrolysis method at high temperature (2004, Patent Industri di CNRS Paris-France, ID Fr-0202217)
2. Metode sintesis partikel Nano SiO_2 dari bahan pasir alam (pasir kuarsa) dan pemanfaatan sebagai penguat komposit Al/SiO_2 material anti-korosi (2016, Paten, IDP000432900)
3. Material Nanokomposit PANi-SiO_2/Acrylic Paint sebagai pelindung korosi pada medium geotermal (2019, Paten Sederhana, No Pendaftaran: IDP000432xxx)
4. Material Core-Shell Fe3O4@SiO2 metode pembuatannya dan Aplikasinya (2019, Paten Sederhana, No Pendaftaran: IDP000432xxx)
5. Metode pembuatan bahan antibacterial pada rongga mulut (2017, Terdaftar, P00201704516)
6. Metode pencampuran basah dan sintering singkat nanokristalisasi superkonduktor keramik Bi- Sr-Ca-Cu-O berfasa 2212 dan 2223 (2017, Paten/HAKI, P00200800809)
7. Proses pembuatan elektroda superkapasitor karbon aktif tempurung kelapa dan Fe_3O_4 dari pasir besi Lumajang (2018, Paten/HAKI, P00201803114)
8. Proses pembuatan komposit dari karbon aktif tempurung kelapa dan polianilin sebagai

PUBLIKASI DI JURNAL

No.	Nama Dosen	Judul	Penulis	Nama Jurnal	Quartile	URL/ DOI
2020						
1	Prof. Dr. Munasir, M.Si Lydia Rohmawati, M.Si	Amorphous SiO2 Nanoparticles from Natural Sands: Structure and Porosity	Munasir, Lydia Rohmawati, Ahmad Taufiq, and Darminto	Chiang Mai University Journal of Natural Sciences Vol. 19 (3), 563-579	Q3	Link
2	Prof. Dr. Munasir, M.Si Diah HK, M.Si Dr. ZA Imam Supardi, M.Si	Characterization of Fe3O4/rGO composites from natural sources: Application for dyes color degradation in aqueous solution	Munasir, N., Kusumawati, R.P., Kusumawati, D.H., Supardi, Z.A.I., Taufiq, A., Darminto	International Journal of Engineering, Transactions A: Basics,Volume 33, Issue 1, 2020, Pages 18-27	Q1	Link
4	Dr. ZA Imam Supardi, MSi Dr. Binar KP, M.Si	Applying The Cognitive Style-Based Learning Strategy in Elementary Schools to Improve Students' Science Process Skills	Arif SHOLAHUDDIN Leny YUANITA Z. A. Imam SUPARDI Binar Kurnia PRAHANI	Journal of Turkish Science Education 17(2)	Q2	Link
2019						
5	Dr. Munasir, M.Si	Corrosion polarization behavior of Al-SiO2 composites in 1M and related microstructural analysis	Munasir, N., Triwikantoro, Zainuri, M., Bäßler R., Darminto	International Journal of Engineering, Transactions A: Basics, 32(7), pp. 982-990	Q2	Link
6	Dr. Munasir, M.Si	Mechanical Strength and Corrosion Rate of Aluminium Composites (Al/SiO2): Nanoparticle Silica (NPS) as Reinforcement	Munasir, Triwikantoro, Mochamad Zainuri, Ralph Bäßler and Darminto	Journal of Physical Science, 30(1), 81–97	Q3	Link
2018						
7	Prof. Dr. Munasir, M.Si. Dr. Z.A. Imam Supardi, M.Si.	Synthesis of Nano SiO2 Powders from Lusi with Continuous Method	Munasir, A. J. Hairin Pribadi, Z. A. Imam Supardi, Moch. Zainuri, Triwikantoro, and Darminto	Advanced Science Letters, 23(12), pp.12002-12006	Q4	Link

2017						
8	Prof. Dr. Munasir, M.Si. Dr. Z.A. Imam Supardi, M.Si.	Synthesis of Nano SiO2 Powders from Lusi with Continuous Method,	Munasir, Pribadi, A.J.H, Supardi, Z.A.I., Zainuri, M., Triwikantoro, & Darminto	Advance Science Letters, 23(12), 12002-120006.	Q4	Link

PUBLIKASI DI KONFERENSI

No	Nama Dosen	Judul	Penulis	Nama Jurnal	Quartile	URL/ DOI
2021						
1	Prof. Dr. Munasir, M.Si Nadi Suprapto, Ph.D	Enhancing Students' Science Communication Skill: Validation of Learning Tools Based MORE Learning Model	T P Pratiwi, **Munasir** and **N Suprapto**	Journal of Physics: Conference Series 1805:012014	Q3	Link
2	Dr. Frida U Ermawati, M.Sc	The Response of (Mg0.6Zn0.4)TiO3 Ceramic System as A Dielectric Resonator Oscillator at C-Band	**F U Ermawati**	Journal of Physics: Conference Series 1805:012039	Q3	Link
3	Lydia Rohmawati, M.Si Woro Setyarsih, M.Si Prof. Dr. Munasir, M.Si	Application Titanium Dioxide Nanotube from Natural Source as Tooth Whitening	Istiqomah, **L Rohmawati, W Setyarsih,** A Hefdea, E Wulancahayani and **Munasir**	Journal of Physics: Conference Series 1805:012012	Q3	Link
4	Nugrahani Primary Putri, M.Si	Effect of Evaporation Deposition Time on Thickness	**N P Putri**, E Yulisetiana, D J D H	Journal of Physics: Conference Series 1805:012035	Q3	Link
2020						
5	Prof. Dr. Munasir, M.Si Diah Hari Kusumawati, M.Si	Magnetic Properties of Fe3O4@Graphene: Preparation from Natural Material	**Munasir**, R.P. Kusumawati, **D.H. Kusumawati**	Journal of Physics: Conference Series 1569 (2020) 042087 IOP Publishing		Link
6	Prof. Dr. Munasir, M.Si	Graphene/SiO2 Nanocomposite From Natural Material	**Munasir,** Mahdalysa Dayu	MSCEIS 2019, October 12, Bandung,		Link

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7	Prof. Dr. Munasir, M.Si	Preparation of black iron oxide nanoparticles covered by Zingiber officinale extract	Desi Kurnia Yunedi , Ahmad Taufiq , Arif Hidayat, Ainun Nikmah , Sunaryono , and **Munasir**	AIP Conf. Proc. 2251, 040016-1–040016-6;		Link
8	Prof. Dr. Munasir, M.Si	Investigation of magnetic properties and anti-microbial activity of Mn0.25Fe2.75O4 /Ag composites	Sunaryono Sunaryono, Nadiya Miftachul Chusna, Nandang Mufti, **Munasir Munasir**, Juniastel Rajagukguk, and Ahmad Taufiq	AIP Conf. Proc. 2251, 040001-1–040001-8;		Link
9	Prof. Dr. Munasir, M.Si Diah Hari Kusumawati, M.Si Nugrahani Primary Putri, M.Si	Amorphous-SiO2 nanoparticles for water treatment materials	**Munasir Munasir** , Nurul Hidayat , **Diah Hari Kusumawati , Nugrahi Primary Putri** , Ahmad Taufiq , and Sunaryono Sunaryono	AIP Conf. Proc. 2251, 040030-1–040030-7;		Link
10	Prof. Dr. Munasir, M.Si Diah Hari Kusumawati, M.Si Nugrahani Primary Putri, M.Si Dr. Zainul Arifin Imam Supardi, M.Si	Graphene from glucose coated silica sand for water purification applications	Moch. Saifur Rijal, Antony Mahendra , Kusuma Dwi Lestari, Aprillia Nurcahya Putri, **Munasir Munasir**, **Diah Hari Kusumawati, Nugrahani Primary Putri, Zainul Arifin Imam**, Nurul Hidayat , Ahmad Taufiq, and Sunaryono Sunaryono	AIP Conf. Proc. 2251, 040010-1–040010-6;		Link
11	Dr. Zainul Arifin Imam Supardi, M.Si	Magnetic driven electrical conductivity and band gap energy of SrTi1-XCrxO3	Ishmah Luthfiyah, Markus Diantoro , Ulwiyatus Sa'adah , Siti Wihdatul Himmah , Hari Wisodo, **Zainul Arifin Imam Supardi** , and Arif Hidayat	AIP Conf. Proc. 2251, 040003-1–040003-7;		Link
12	Dr. Frida U Ermawati, M.Sc	The Use of Liquid Mixing Method to Prepare Ilmenite Structure-Based Ceramic Powders	**F U Ermawati**	Journal of Physics: Conference Series Vol 1491		Link

13	Dr. ZA Imam Supardi, M.Si	Synthesized of Li4Ti5O12 Materials via Sol-Gel Method to Lithium Ion Battery Anodes	A I Najihah, S Priyono, **Z A Imam Supardi**, A Subhan and B Prihandoko	Journal of Physics: Conference Series Vol 1491		Link
14	Lydia Rohmawati, M.Si Woro Setyarsih, M.Si	Analysis of Charging/Discharging Supercapacitor Active Carbon/rGO Based on Natural Materials	V Wardani, **L Rohmawati, W Setyarsih**, D Alfarisi and A Subhan	Journal of Physics: Conference Series Vol 1491		Link
15	Nugrahani P Putri, M.Si	The Effect of Solution Concentration and Deposition Time on Viscoelasticity and Morphology of Polyaniline Coating	E I P Rahay1 and **N P Putri**	Journal of Physics: Conference Series Vol 1491		Link
16	Diah H Kusumawati, M.Si Nugrahani P Putri, M.Si Dr Asnawi, M.Si Prof. Dr. Munasir, M.Si	Porosity Characteristics and Electrochemical Performance of rGO Coconut Shell as Supercapacitor Electrodes	**D H Kusumawati, N P Putri, Asnawi**, T S Dewi and **Munasir**	Journal of Physics: Conference Series Vol 1491		Link
17	Diah H Kusumawati, M.Si	The Effect of Addition Fe3O4 on the rGO/Fe3O4 Composite on Glucose Biosensor Performance	R Y Mufida and **D H Kusumawati**	Journal of Physics: Conference Series Vol 1491		Link
18	Dr. Dwikoranto, M.Pd Dr. Munasir, M.Si	Effectiveness of Project Based Laboratory Learning to Increase Student's Science Process Skills and Creativity	**Dwikoranto, Munasir**, R Setiani, Suyidno, W A Surasmi, S Tresnaningsih and Pramonoadi	Journal of Physics: Conference Series Vol 1491	Q3	Link
19	Dr. Frida U Ermawati, M.Sc	Evaluating Student's Misconceptions and The Causes on Direct Current Concepts by Means of Four-Tier Multiple Choice Test	R Aisahsari and F U Ermawati	Journal of Physics: Conference Series Vol 1491	Q3	Link

20	Dr. Frida U Ermawati, M.Sc	Identify 11th Grade of Senior High School Jogoroto students' misconceptions on Dynamic Rotation and Rigid Body Equilibrium concepts using Four-Tier Diagnostic Test	E M Jannah and F U Ermawati	Journal of Physics: Conference Series Vol 1491	Q3	Link
21	Dr. Frida U Ermawati, M.Sc	Using Four-Tier Multiple Choice Diagnostic Test to Identify Misconception Profile of 12th Grade Students In Optical Instrument Concepts	F Rohmanasari and FU Ermawati	Journal of Physics: Conference Series Vol 1491	Q3	Link
22	Dr. Frida U Ermawati, M.Sc	Analysis Students' Conception Using Four-Tier Diagnostic Test for Dynamic Fluid Concepts	D M Kurniawati and F U Ermawati	Journal of Physics: Conference Series Vol 1491	Q3	Link
2019						
23	Lydia Rohmawati, M.Si Woro Setyarsih, M.Si	Identification of Phase CaCO3/MgO in Bangkalan Dolomite Sand as An Antibacterial Substance	**L Rohmawati**, S P Sholicha, SP S Holisa and **W Setyarsih**	Journal of Physics Conference Series volume 1417 article number 012001	Q3	Link
24	Nugrahani PP, M.Si	Solvent Effect on Viscoelastic Behaviour and Morphology of Polyaniline Coating at QCM Sensor	**N P Putri**, D W Pravitasari, F Al Aziz, Maulidiah, D J D H Santjojo, Masruroh and S P Sakti	Journal of Physics Conference Series volume 1417 article number 012002	Q3	Link
25	Dr. Frida Ulfah Ermawati, M.Sc.	Study on Heating Profile of Liquid-mixing-synthesized $ZnTiO_3$	**F U Ermawati** and N A Imamah	IOP Conference Series: Materials Science and Engineering	-	Link
26	Dr. ZA Imam Supardi, M.Si	Electron Diffusion Model Based on I-V Data Fitting as the Calculation Method for DSSC Internal Parameters	Markus Diantoro, Solehudin, Arif Hidayat, **Z. A. Imam Supardi** and Setia Budi	IOP Conference Series: Materials Science and Engineering, Volume 515, Number 1	-	Link

27	Dr. Munasir, M.Si Dr. ZA Imam Supardi, M.Si	Phase and Magnetic Properties of Fe3O4/SiO2 Natural Materials-Based Using Polyethylene Glycol Media	**Munasir**, N. Setyaningsih, S. Yanasin, **Z.A.I. Supardi**, A. Taufiq and Sunaryono	IOP Conference Series: Materials Science and Engineering, Volume 515, Number 1	-	Link
28	Dr. Munasir, M.Si	Structural and Magnetic Behaviours of Magnetite/Polyvinyl Alcohol Composite Nanofibers	Ahmad Taufiq, Maqfiratun Ainun Jannah, Arif Hidayat, Nurul Hidayat, Nandang Mufti, **Munasir** and Hendra Susanto	IOP Conference Series: Materials Science and Engineering, Volume 515, Number 1	-	Link
29	Dr. ZA Imam Supardi, M.Si	The Effect of Spin Coating Rotation on the Optoelectronic Properties of PANI/TiO2/FTO-Glass Photoanode	S W Himmah, U Sa'adah, A D Iswatin, M Diantoro, Arif Hidayat and **Z A Imam Supardi**	IOP Conference Series: Materials Science and Engineering, Volume 515, Number 1	-	Link
30	Woro Setyarsih, S.Pd., M.Si. dan Lydia Rohmawati, M.Si.	Preparation of CaCO3/MgO from Bangkalan's dolomite for raw biomaterial	S P Sholicha, **W Setyarsih**, G J Sabrina and **L Rohmawati**	Journal of Physics Conference Series volume 1171 article number 012034	Q3	Link
31	Lydia Rohmawati, M.Si. dan Woro Setyarsih, S.Pd., M.Si.	Cycle stability of activated carbon/PANi composite as supercapacitor electrode based on natural material	N Anggraini, **L Rohmawati** and **W Setyarsih**	Journal of Physics Conference Series volume 1171 article number 012046	Q3	Link
32	Lydia Rohmawati, M.Si. dan Woro Setyarsih, S.Pd., M.Si.	Specific capacitance of composite electrode activated carbon/rGO of coconut shell (*Cocos nucifera*) as supercapacitor electrode	**L Rohmawati**, S H Intifadhah, **W Setyarsih** and Tukiran	Journal of Physics Conference Series volume 1171 article number 012036	Q3	Link
33	Dr. Frida Ulfah Ermawati, M.Sc.	Phase composition and particle size distribution in $Mg(Ti_{1-x}Sn_x)O_3$ powders	**F U Ermawati**, M H Ahfa and Supardiyono	Journal of Physics Conference Series volume 1171 article number 012038	Q3	Link

34	Nugrahani Primary Putri, M.Si., Diah Hari Kusumawati, M.Si., Dr. Munasir, M.Si.	Effect of calcination temperature on characteristics of reduced Graphene Oxide (rGO) made from old coconut shell	**N P Putri**, **D H Kusumawati**, L Agustina and **Munasir**	Journal of Physics Conference Series volume 1171 article number 012042	Q3	Link
35	Dr. Munasir, M.Si.	Synthesis and Characterization of Fe3O4@rGO Composite with Wet-Mixing (ex-situ) Process	**Munasir** and R P Kusumawati	Journal of Physics Conference Series volume 1171 article number 012048	Q3	Link
36	Dr. Munasir, M.Si.	Synthesis and characterization of Fe3O4/SiO2 composite with in-situ method: TEOS as SiO2 NPs precursor	**Munasir** and A Terraningtyas	Journal of Physics Conference Series volume 1171 article number 012050	Q3	Link
37	Prof. Dr. Madlazim, M.Si Dr. Eko Hariyono, M.Pd Dr. Munasir, M.Si	Development of The OrSAEv Learning Materials: Preliminary Study of Student's Knowledge about Earthquake and Tsunami Mitigation	D E Elfiana, **Madlazim, E Hariyono** and **Munasir**	Journal of Physics: Conference Series volume 1417 article number 012083	Q3	Link
38	Drs. Supardiyono, M.Si Dr. Munasir, M.Si Dr. Dwikoranto, M.Pd.	Effectiveness Concept Attainment Tutorial Based Multi Representation of Mastery Concepts and Scientific Consistency College Student	Sri Tresnaningsih, **Supardiono, Munasir, Dwikoranto**, Pramonoadi, Titik Setyowati, Dwi Sambada and Rahyu Setiani	Journal of Physics: Conference Series volume 1387 article number 012073	Q3	Link
39	Dr. Frida Ulfah Ermawati, M.Sc.	Misconception profile of students in senior high school iv Sidoarjo East Java in work and energy concepts and the causes evaluated using Four-Tier Diagnostic Test	**F U Ermawati**, S Anggrayni and L Isfara	Journal of Physics: Conference Series volume 1387 article number 012062	Q3	Link
40	Dr. Frida Ulfah Ermawati, M.Sc.	The validity of Four-Tier's misconception diagnostic test for Work and Energy concepts	S Anggrayni and **F U Ermawati**	Journal of Physics Conference Series volume 1171 article number 012037	Q3	Link

41	Dr. Z.A. Imam Supardi, M.Si.	Practicality of Performance Assessment Instruments in Measurement Topic 10th Grade Secondary School	A Lutfiyah and **Z A I Supardi**	Journal of Physics Conference Series volume 1171 article number 012047	Q3	Link
2018						
42	Dr. Muansir, M.Si. Dr. Z.A. Imam Supardi, M.Si. Diah H Kusumawati, M.Si. Nugrahani P Putri, M.Si.	Phase Transition of SiO_2 Nanoparticles Prepared from Natural Sand: The Calcination Temperature Effect	**Munasir**, **ZA Imam Supardi**, Mashadi Zumrotun Nisa, **DH Kusumawati**, **NP Putri**, Ahmad Taufiq, Sunaryono, Nurul Hidayat and Darminto	J. Phys.: Conf. Ser. 1093 012025	Q3	Link
43	Nugrahani P Putri, M.Si. Diah H Kusumawati, M.Si. Dr. Muansir, M.Si.	Synthesis of polyaniline/cellulose composite as humidity sensor	**N P Putri**, **D H Kusumawati**, N Widiyanti and **Munasir**	J. Phys.: Conf. Ser. 997 012009	Q3	Link
44	Dr. Muansir, M.Si. Diah H Kusumawati, M.Si. Nugrahani P Putri, M.Si. Dr. Z.A. Imam Supardi, M.Si.	Synthesis and Characterization of γ-Al2O3/SiO2 Composite Materials	**Munasir**, **DH Kusumawati**, Sunaryono, **NP Putri**, Nurul Hidayat, Ahmad Taufiq and **ZAI Supardi**	J. Phys.: Conf. Ser. 1093 012015	Q3	Link
45	Dr. Muansir, M.Si. Diah H Kusumawati, M.Si. Nugrahani P Putri, M.Si. Dr. Z.A. Imam Supardi, M.Si.	Synthesis of PANi-SiO2 Nanocomposite with In-Situ Polymerization Method: Nanoparticle Silica (NPS) Amorphous and Crystalline Phase	**Munasir**, N R D Luvita, **D H Kusumawati**, **N P Putri**, Triwikantoro and**Z A I Supardi**	J. Phys.: Conf. Ser. 997 012052	Q3	Link
46	Dr. Muansir, M.Si. Diah H Kusumawati, M.Si. Nugrahani P Putri, M.Si. Dr. Z.A. Imam Supardi, M.Si.	Structure Analysis of Fe3O4@SiO2 Core Shells Prepared from Amorphous and Crystalline SiO2 Particles	**Munasir**, A. S. Dewanto, **D. H. Kusumawati, N. P. Putri**, A. Yulianingsih, I. K. F. Sa'adah, A. Taufiq, N. Hidayat, S. Sunaryono and **Z. A. I. Supardi**	IOP Conf. Ser.: Mater. Sci. Eng. 367 012010	-	Link
47	Dr. Frida U Ermawati, M.Sc. Dr. Z.A. Imam Supardi, M.Si.	Contribution of relaxation effect to the permittivity of Mg1-xZnxTiO3 ceramics	**F. U. Ermawati**, **Z. A. I. Supardi**, S. Suasmoro, S. Pratapa and T. Hübert	IOP Conference Series: Materials Science and Engineering. 367 (2018) 012003	-	Link
48	Dr. Frida U Ermawati, M.Sc.	Dilatometric shrinkage study on magnesium titanate-based ceramic systems	**F U Ermawati** and S Suasmoro	IOP Conference Series: Journal of Physics:	Q3	Link

				Conference Series. 997 (2018) 01		
49	Lydia Rohmawati, M.Si. Woro Setyarsih, S.Pd., M.Si.	The Effect of rGO Mass Composition on The Performance of Activated Carbon/rGO Supercapacitor Electrode Based on Coconut Shell (Cocos nucifera)	S H Intifadhah, **L Rohmawati**, **W Setyarsih** and Tukiran	Journal of Physics: Conference Series, Volume 1108	Q3	Link
50	Lydia Rohmawati, M.Si.	Preparation of Calcium Carbonate (from Shellfish)/Magnesium Oxide Composites as an Antibacterial Agent	Z. Jannah, H. Mubarok, F. Syamsiyah, AAH Putri and **L Rohmawati**	IOP Conference Series: Materials Science and Engineering, Volume 367	-	Link
51	Lydia Rohmawati, M.Si. Woro Setyarsih, S.Pd., M.Si.	Variation sweep rate cyclic voltammetry on the capacitance electrode activated carbon/PVDF with polymer electrolyte	**L Rohmawati**, **W Setyarsih** and T Nurjannah	Journal of Physics: Conference Series, Volume 997	Q3	Link
52	Prof. Dr. Munasir, M.Si.	Investigation of Magnetic Properties and Mechanical Responses on Hydrogel-TMAH-Magnetite	Sunaryono, M. F. Hidayat, C. Insjaf, A. Taufiq, N. Mufti, and **Munasir**	IOP: Conf. Series.: Mater. Sci. Eng. 367(2018) 012025	-	Link
53	Prof. Dr. Munasir, M.Si.	Deformation of Ferrogel Based on *Carboxyl Methyl Cellulose* (CMC)/*Polyvinyl Alcohol* (PVA) Hydrogel	Sunaryono, M. N. Kholifah, Yudyanto, A. Taufiq, N . Mufti, R. Wulandari, **Munasir**, and M. Diantoro	IOP: Conf. Series.: Mater. Sci. Eng. 367 (2018) 012016	-	Link
54	Abd. Kholiq, S.Pd., M.T. Nadi Suprapto, Ph.D. Nugrahani P Putri, M.Si.	The performance assessment of undergraduate students in physics laboratory by using guided inquiry	H Mubarok, A Lutfiyah, **A Kholiq**, **N Suprapto** and **N P Putri**.	IOP Conf. Series: Journal of Physics: Conf. Series 997 (2018) 012039	Q3	Link
55	Abd. Kholiq, S.Pd., M.T. Nadi Suprapto, Ph.D. Nugrahani P Putri, M.Si.	The differences in analysing strategy of viscosity experiment between freshmen and laboratory assistant	S Anggrayni, H Mubarok, **N P Putri**, **N Suprapto** and **A Kholiq**	IOP Conf. Series: Journal of Physics: Conf. Series 997 (2018) 012026	Q3	Link

56	Abd. Kholiq, S.Pd., M.T. Nadi Suprapto, Ph.D. Nugrahani P Putri, M.Si.	Correction factors in determining speed of sound among freshmen in undergraduate physics laboratory	A Lutfiyah, A S Adam, **N Suprapto**, **A Kholiq** and **N P Putri**.	IOP Conf. Series: Journal of Physics: Conf. Series 997 (2018) 012024	Q3	Link
57	Abd. Kholiq, S.Pd., M.T. Nadi Suprapto, Ph.D. Nugrahani P Putri, M.Si.	Analysis of graphical representation among freshmen in undergraduate physics laboratory	A S Adam, S Anggrayni, **A Kholiq**, **N P Putri** and **N Suprapto**.	IOP Conf. Series: Journal of Physics: Conf. Series 997 (2018) 012020	Q3	Link
58	Prof. Dr. Budi Jatmiko, M.Pd. Dr. Binar K Prahani, M.Pd. Prof. Dr. Munasir, M.Si.	The improvement of students physics problem solving skills through the implementation of PO2E2W learning model assisted PhET media	A S D Sari[1], **B K Prahani[2]**, **Munasir[3]** and **B Jatmiko[3]**	J. Phys.: Conf. Ser. 1108 012024	Q3	Link
59	Dra. Suliyanah, M.Si. Lydia Rohmawati, M.Si.	Identification student's misconception of heat and temperature using three-tier diagnostic test	**Suliyanah**, H N P A Putri and **L Rohmawati**	Journal of Physics: Conference Series, Volume 997	Q3	Link
60	Prof. Dr. Munasir, M.Si. Dr. Z.A. Imam Supardi, M.Si.	Synthesis of Nano SiO2 Powders from Lusi with Continuous Method	**Munasir**, A. J. Hairin Pribadi, **Z. A. Imam Supardi**, Moch. Zainuri, Triwikantoro, and Darminto	Advanced Science Letters, 23(12), pp.12002-12006	Q4	Link
61	Dr. Z.A. Imam Supardi, M.Si.	The Development of Inquiry Learning Materials to Complete Content Life System Organization in Junior High School Students	F Mayasari, Raharjo and **Z A I Supardi**	Journal of Physics: Conference Series 947 (1), 012034	Q3	Link
62	Dr. Z.A. Imam Supardi, M.Si.	The Application of Inquiry Learning to Train Critical Thinking Skills onLightMaterial of PrimarySchool Students	Suryanti, **I S Z Arifin**, UBaginda	Journal of Physics: Conf. Series 1108 (2018) 012128	Q3	Link
63	Dr. Z.A. Imam Supardi, M.Si.	The effect of multiple external representations (MERs) worksheets toward complex system reasoning achievement	Sumarno, M Ibrahim and **Z A I Supardi**	J. Phys.: Conf. Ser. 983 012202	Q3	Link
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64	Prof. Dr. Munasir , M.Si. Dr. Z.A. Imam Supardi, M.Si.	Composites of Fe3O4/SiO2 from Natural Material Synthesized by Co-Precipitation Method	**Munasir,** Dewanto A S, Yulianingsih, A., Saadah, I.K.F., **Supardi, Z.A.I.,** Mufid, A., and Taufiq, A.	IOP Conference Series: Materials Science and Engineering, 202, 012057	-	Link