

Daftar Publikasi FMIPA Tahun 2011

- H. Garminia, P.Astuti, Irawati, A Note on Dedekind Modules, *International Journal of Algebra*, **5:10**, (2011).
- Irawati, The Generalization of HNP Ring and Finitely Generated Modules Over HNP Ring, *International Journal of Algebra*, **5:13**, (2011).
- A.K.Amir, H. Marubayashi, P.Astuti, I. Muchtadi-Alamsyah, Corrigendum to Minimal Prime Ideals of Ore Extension Over a Commutative Dedekind Domain and Its Application, *JP Journal of Algebra, Number Theory and Applications*, **21**, (2011).
- A.K.Amir, P.Astuti, I. Muchtadi-Alamsyah, Irawati, On Maximal Orders and Factor Rings of Ore Extension over a Commutative Dedekind Domain, *Far East Journal of Mathematical Sciences*, **55:1**, (2011).
- M.Paryasto, B.Rahardjo, I.Muchtadi-Alamsyah, Kuspriyanto, Implementasi Composite Field pada Elliptic Curve Cryptography, *Jurnal Ilmiah Ilmu Komputer*, **7:2**, (2011).
- Astuti.P, Wimmer H.K, Characteristic and Hyperinvariant Suspaces Over The Field $FG(2)$, *Linear Algebra and Its Applications*, (2011).
- Irawati, Purboyo TW, Developing Computer Program for Computing Eigenpairs of 2×2 Matrices and 3×3 Upper Triangular Matrices Using the Simple Algorithm, *Far East Journal of Mathematical Sciences*, (2011).
- M. Indris, S. Ekariani, H. Gunawan, On The Space of P-summable sequences, *Mat. Vesnik*, (2011).
- H. Gunawan and Y.Sawano, Application of Reproducing Kernel Hilbert space to a minimization problem with prescribed nodes, *EAJAM*, (2011).
- H. Gunawan, E. Rusyaman, L. Ambarwati, Surfaces with prescribed nodes and minimum energy integral of fractional order, *ITB Journal of Sciences*, (2011).
- Wono Setya Budhi, Janny Lindiarni, Boundedness of Multilinear Generalized Fractional Integral Operators in Generalized Morrey Space, *Far East Journal of Mathematics*, **57:1**, (2011).
- Wono Setya Budhi, Janny Lindiarni, Boundedness of the Bimaximal Operator and Bifractional Integral Operators in Generalized Morrey Spaces, *SEAMS Conference*, Yogya, (2011).
- Wono Setya Budhi, Janny Lindiarni, Another elementary Proof of the Jordan Form of Matrix, *ICREAMS*, (2011).
- R. R. Mukti, Y Kamimura, W Chaikittisilp, H. Hirahara, A. Shimojima, M. Ogura, KK Cheralathan, S.P Elangovan, K. Itabashi, T. Okubo, Hierarchically porous ZSM-5 Synthesized by Nomionic and Cationic Templating Routes and Their Catalytic Activity in Liquid Phase Esterification, *ITB Journal of Science*, **43A**, 1, (2011).

- S. Triwahyono, A.A. Jalil, R.R. Mukti, M. Musthofa, A.N. Razali, Hydrogen Spillover behavior of Zn/HZSM-5 Showing Catalytically Active Protonic acid sites in the isomerization of n-pentane, *Applied Catalysis A : General*, 407, (2011).
- C. Kunjaya, P. Mahasena, K. Vierdyanti, S. Herlie, Can Self Organized Critical Accretion Disks Generate Log-Normal Emission Variability in AGN?, *Astrophysics and Space Science*, (2011).
- B. Soonthornthum dan C. Kunjaya, International Olympiad on Astronomy and Astrophysics, *European Journal of Physics*, 32, (2011).
- Nakamura, T. Dermawan. B, Yoshida, F., Spherical preference in Shapes of sub-km-sized fast-rotating main-belt asteroids, *Publications of the Astronomical Society of Japan*, (2011).
- Suryadi Siregar, Will 3552 Don Quixote Escape from the Solar System?, *ITB Journal of Science*, (2011).
- B. Dermawan, T. Nakamura, F. Yoshida, Subaru Lightcurve Observations of Sub-km-Sized Main-Belt Asteroids, *Publ. Astron. Soc. Japan*, 63, (2011).
- Natalia. D, Vidilaseris. K, Satrimafitrah, Ismaya, Purkan P, Fibriansah, Puspasari, F. Nurachman, ijsra, Soemitro, Biochemical Characterization of a Glucoamylase from *Saccharomycopsis Fibuligera* R64, *Biologia*, (2011).
- Widhiastuty, Febriani, Moeis, Akhmaloka, F. Madayanti, Cloning, Homological Analysis and Expression of Lipase Gene from Hot Spring Isolate, *International Journal of Integrative Biology*, (2011).
- Zeily Nurachman, Alfredo Kono, Ocky Karna Radjasa, Dessy Natalia, Identification a novel raw strach degrading a amylase from a tropical marine bacterium, *American Journal of Biochemistry and Biotechnology*, 6, (2011).
- Zeily Nurachman, Sari Dewi Kurniasih, Ferra Puspitawati, Sarwono Hadi, Ocky Karna Radjasa, Dessy Natalia, Cloning of the endoglucanase gene from a *Bacillus amyloliquefaciens* PSM 3. in *Escherichia coli* revealed catalytic triad residues Thr-His_Glu, *American Journal of Biochemistry and Biotechnology*, 6, (2011).
- F. Puspasari, Z. Nurachman, AS Noer, O.K. Radjasa, M.J.E.C. Van der Maare., D. Natalia, Characteristic of raw strach degrading α Amylase from *Bacillus aquimaris* MKSC 6.2 associated with soft coral *Sinulaira*, *Strach*, (2011).
- Hidayat S, ; Pitriana P; Hidayat R; Fitrilawati; Bahtiar A Siregar; Ozaki M, Application of Hybrid Polymer as a Two Dimensional Grating and It's lasing Characteristic, *Sains Malayasiana*, (2011).
- H. Alatas, HJWM Hoekstra, Alexander A. Iskandar, M.O. Tjia, Group-index and Resonant Field Enhancement in a Symmetric Double-sided Grated Waveguide, *J. Opt. Soc. Am A* 28(6) 1197-1203, (2011).
- Ulbrich H., Kruger F., Nugroho A.A., Lamago D., Sidis Y., Braden M., Spin-wave excitations in the ferromagnetic metallic and in the charge-, orbital-, and spin-ordered states in $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$ with $x \approx 0.5$, *Physical Review B.*, **84**, 94453, (2011).
- Roberge B., Jandl S., Nugroho A.A., Palstra T.T.M., Micro-Raman study of orbiton-phonon coupling in YbVO_3 , *Journal of Raman Spectroscopy*, (2011).

- Mufti N., Blake G.R., Mostovoy M., Riyadi S., Nugroho A.A., Palstra T.T.M., Magnetolectric coupling in MnTiO₃, *Physical Review B*, **83**,104416, (2011).
- H. Alatas, HJWM Hoekstra, Alexander A. Iskandar, M.O. Tjia, Group-index and resonant field enhancement in a symmetric double-sided grated waveguide, *J. Opt. Soc. Am*, A28, (2011).
- Andika Putra, Alexander A. Iskandar, May-On Tjia, Performance enhancement of a photonic crystal microcavity and related localization of evanescent Bloch waves, *Phys. Rev.* B84 075159, (2011).
- Hidayat, R., Hidayat, S., Fitrilawati, F., Herman, Tjia, M.O, Fujii a., Ozaki, Distributed Feedback Grating Fabricated from Hybrid Polymer Precursor Gel by Employing Short-pulse Laser interference for photopumped polymer laser applications, *Polyemrs for Advanced Technologies*, DOI, (2011).
- Zulhadjri, Prijamboedi B., Nugroho A.A., Mufti N., Ismunandar, Five layers Aurivillius phases Pb_{2-x}Bi_{4+x}Ti_{5-x}Mn_xO₁₈: Synthesis, structure, relaxor ferroelectric and magnetic properties, *ITB Journal of Science*, 43A, 139, (2011).
- Zulhadjri, Prijamboedi B., Nugroho A.A., Mufti N., Fajar A., Palstra T.T.M., Ismunandar, Aurivillius phases of PbBi₄Ti₄O₁₅ doped with Mn³⁺ synthesized by molten salt technique: Structure, dielectric, and magnetic properties, *Journal of Solid State Chemistry*, 184, 1318, (2011).
- Widiatmoko, E., Widayani, Budiman, M., Abdullah, M., Khairurrijal, A Simple Spectrophotometer Using Common Materials and a Digital Camera, *Physics Education*, 46, (2011).
- Khairurrijal, Abdullah, M., Budiman, M., B6:B16ome-made PIC 16F877 Microcontroller-based Temperature Control System for Learning Automatic Control, *Computer Applications in Engineering Education*, **19:1**, (2011).
- Wang, W.-N., Ogi, T., Kaihatsu, Y., Iskandar, F., Okuyama, K, Novel rare-earth-free tunable-color-emitting BCNO phosphors, *Journal of Materials Chemistry*, **21:14**, (2011).
- Nandiyanto, A.B.D., Ogi, T., Iskandar, F., Okuyama, K., Highly Ordered Porous Monolayer Generation by dDal-speed spin-coating with Colloidal Templates, *Chemical Engineering Journal*, **167:1**, (2011).
- Lee, S.Y., Chang, H., Ogi, T., Iskandar, F., Okuyama, K, Measuring the effective Density, Porosity, and Refractive Index of Carbonaceous Particles by Tandem Aerosol techniques, *Carbon*, **49:7**, (2011).
- Balgis, R., Iskandar, F., Ogi, T., Purwanto, A., Okuyama, K., Synthesis of Uniformly Porous NiO/ZrO₂ Particles, *Materials Research Bulletin*, **46:5**, (2011).
- Hagura, N., Ogi, T., Shirahama, T., Iskandar, F., Okuyama, K., Highly Luminescent Silica-coated ZnO Nanoparticles Dispersed in an Aqueous Medium, *Journal of Luminescence*, **131:5**, (2011).
- Hagura, N., Takeuchi, T., Takayama, S., Iskandar, F., Okuyama, K. , Enhanced Photoluminescence of ZnOSiO₂ Nanocomposite Particles and the Analyses of Structure and Composition, *Journal of Luminescence*, **131:1**, (2011).

- Masturi, Abdullah, M., Khairurrijal, High Compressive Strength of Home Waste and Polyvinyl Acetate Composites Containing Silica Nanoparticle Filler, *Journal of Materials Cycles and Waste Management*, (2011).
- Isnaeni, Vandri; Arutanti, O. Sustini, E., Aliah, H., A Novel System for Producing Photocatalytic Titanium Dioxide-coated Fibers for decomposing Organic Pollutants in Water, *Environmental Progress (Wiley)*, (2011).
- Khairurrijal, Abdullah, M., Budiman, M., Home-made PIC 16F877 Microcontroller-based Temperature Control System for Learning Automatic Control, *Computer Applications in Engineering Education*, (2011).
- Suryamas, A.B. Munir, M.M., Ogi, T., Khariurrijal, Okuyama, Intense green and yellow emissions from electrospun BCNO Phosphor nanofibers, *Journal of Materials Chemistry*, (2011).
- Andhy Setiawan, Altje Latununuwe, Euis Sustini, and Toto Winata, Simple Method for Synthesizing Pt Nano-Droplets as Metal Catalyst in SiNW Deposition, *J. Mat. Sci. Eng*, 5(5), (2011), 541
- Altje Latununuwe, Patricia Lubis, Andhy Setiawan, Ramli, Yudi Darma, Mikrajuddin Abdullah, Toto Winata, Fabrication of CNT at Low temperature using HWC-VHF-PECVD, *J. Mat. Sci. Eng.*, (2011).
- Khotimah, S.N., Viridi, S., Widayani, Khairurrijal, The Dependence of Spring Constant in the Linear Range on Spring Parameters, *Physics Education*, (2011).
- Takashi Sakuma, Saumya R. Mohapatra, Nobuhiro Isozaki, Khairul Basar, Estimation of inter-atomic Force Constants and Phonon Dispersion Using Correlation Effects Among Thermal displacements of atoms in Ge, *Journal of Non-Crystalline Solids*, 357, (2011).
- Sidik Permana, Naoyuki Takaki, Hiroshi Sekimoto, Breeding and Void Reactivity Analysis on Heavy Metal closed-cycle water cooler reaktor, *Annals of Nuclear Energy*, 38, (2011).
- Sidik Permana, Mitsutoshi Suzuki, Masaki Saito, Effect of TRU Fuel Loading on core performance and plutonium production of FBR, *Elsevier*, 241, (2011).
- Sidik Permana, Mitsutoshi Suzuki, Masaki Saito, Material Attractiveness of Plutonium Composition on Doping Minor Actinide of Large FBR, *Journal of Power and Energy Systems*, (2011).
- Sidik Permana, Mitsutoshi Suzuki, Masaki Saito, Basic evaluation on material attractiveness of isotopic plutonium barrier, *Nuclear Engineering and Design*, (2011).
- Takashi Sakuma, Xianglian, Norifumi Shimizu, Saumya R. Mohapatra, Nobuhiro Isozaki, Hiroyuki Uehara, Haruyuki Takashashi, Khairul Basar, Correlation effect among thermal displacements of atoms in KBr, *Solid State Ionics*, (2011).
- Fauzi, U., An Estimation of Rock Permeability and Its Anisotropy from Thin Sections Using a Renormalization Group Approach, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, **33:6**, (2011).
- Selly Feranie, Umar Fauzi, Satria Bijaksana, 3D Fractal Dimension and Flow Properties in The Pore Structure of Geological Rocks, *Fractals*, **19:3**, (2011).

- Rusnaeni; Widodo Purwanto; Nasikin; Hendrajaya L, The Influence of Pt atomic ratio in the activity PtNi/C nanocatalysts for the PEMFC, *ITB Journal of Engineering Science*, (2011).
- Amstrong f. Sompota, Linus A. Pasasa and Rahmat Sule, Comparing Models GRM, Refraction Tomography and Neural Network to Analyze Shallow Landslide, *ITB Journal of Science*, 43:3, (2011).
- Arianto, F.P. Zen, S. Feranie, I P. Widyatmika, B.E. Gunara, Kaluza-Klein Brane Cosmology with a bulk Scalar Field, arXiv:1103.1703, *Physical Review D*84, 044008, (2011).
- Bobby E. Gunara, F.P. Zen, Arianto, N=1 Supergravity BPS Domain Walls on Kähler-Ricci Soliton, arXiv:0901.0416, *Reports on Mathematical Physics*, 67, (2011).
- Fiki Akbar, Bobby E. Gunara, Spherical Symmetric 4d the Ricci Flow Solution with Constant Scalar Curvature Space as Initial Geometry, *International Mathematical Forum*, 6:7, (2011).
- Bobby E. Gunara, F.P. Zen, Agus Suroso, Arianto, Some Aspects of Spherical Symmetric Extremal Dyonically Black Holes in 4d N=1 Supergravity, arXiv:1012.0971, *Classical and Quantum Gravity*, (2011).
- A. Sulaiman, F.P. Zen, H. Alatas and L.T. Handoko, Dynamical Analysis of Peyrard-Bishop's DNA Model with Damping and External Force, (submitted for publication), (2011).
- Bobby Eka Gunara, F.P. Zen, Arianto, Deformation of Dyonically Black Holes and Vacuum Geometries in Four Dimensional N=1 Supergravity, arXiv:0908.2015, (2011).
- Suparno Satira, Sparisoma Viridi, F.P. Zen, Steady energy transfer dependence granular temperature on single bouncing granular particle, arXiv:1106.1772, (2011).
- Mitra Djamil, Ramli, Suparno Satira, Suprijadi, Development of Low Cost Vibration Sensor based on Flat Coil Element, *International Journal of Mathematical Models and Methods in Applied Sciences*, 2:3, (2011).
- Amran, M.B., Panggabean, A.S., Sulaeman, A., Rusnadi, M., Preparation of a Chelating Resin and its Application as a Preconcentration System for Determination of Cadmium in River Water by Flow Injection Analysis, *International Journal Environ. Res.*, 5:2, (2011).
- Irdhawati, I., Tatsumi, H., Noviandri, I., Buchari, B., Ibrahim, S., Cyclic Voltammetry of Ion Transfer for Phenylpropanolamine Hydrochloride at Water Nitrobenzene Interface, *J. Chin. Chem. Soc.*, 58:3, (2011).
- Setiyanto, H., Saraswati, V., Hertadi, R., Noviandri, I., Buchari, B., Chemical reactivity of chlorambucil in organic solvents: Influence of 4-chloro butyronitrile nucleophile to voltammogram profiles, *International Journal Electrochem. Sci.*, 6, 2090-2100, (2011).
- Setiyanto, H., Saraswati, V., Hertadi, R., Noviandri, I., Buchari, B., Cyclic Voltammetric Study of Chlorambucil in The presence of 4-Chloro Butyronitrile in Aqueous Solution, *International Journal of ChemTech Research*, 3:4, (2011).

- Irma Mulyani, Djulia Onggo, Mimin Aminah, Demonstration of Spincrossover Compounds For Undergraduate Students, *Slovak University of Technology Press*, 10, (2011).
- Piluharto, B ; Suendo, V; , Ciptati; T . Radiman, CL, Strong Correlation between membrane effective fixed charge and proton conductivity in the sulfonated polysulfone cation-exchange membranes, *Ionics*, (2011).
- Arcana, I.M, ; Bundjali; Hasan; Zulfikar; Hariyawati, The Effect of the soft segment of prepolymers on properties of poly(urethane-ester) end its biodegradability, *Polymer International*, (2011).
- Siang Tandi Gonggo, I Made Arcana, Cynthia L Radiman and Bunbun Bundjali, Synthesis and Characterization of Polyblends from Sulfonated Polystyrene Lignosulfonate as Ionomer Membranes, *International Journal of Materilas Sciences*, (2011).
- Rahmawati F, Prijamboedi, Soepriyanto, Ismunandar, Doping calcia and Yttria into Zirconia Obtained from by product of tin concentrator to improve its ionic conductivity, *ITB Journal of Science*, (2011).
- Veinardi Suendo, Mie Minagawa, Akihito Tonioka, Chronopotentionmetry studi of a cation-exchange Membrane in the Presence of Cationic Surgactant in Membrane Surface Vicinity, *Ionics : International Journal of Ionics The Science and Technology of Ionic Motion*, 17, (2011).
- Latip Zain, W.Z.W.M. Ahmat, N. Yamin, B.M. Yusof, N.I.N. Syah, Y.M. Achmad, Cytotoxic oligostilbenoids from vatica odorata, *Australian Journal of Basic and Applied Sciences*, (2011).
- Wiryanto. L.H, Wave Propagation passing over a submerged porous breakwater, *Journal of Engineering Mathamatics*, (2011).
- Windarto; Gunawan; sukarno,P; Soewono E, Modeling of Mud Filtrate invasion and damage zone formation, *Journal of Petroleum Science and Engineering*, (2011).
- Van Groesen; Andonowati, Fully dispersive dynamic models for surface water waves above varying bottom, Part 1 : Model Equations, *Wave Motion*, (2011).
- Fatmawati, Roberd Saragih, B. Riyanto, and Y. Soeharyadi, Balanced Truncation for Ustable Infinite Dimensional system via Reciprocal transformation, *International Journal of Control, Automation, and Systems*, 9:2, (2011).
- Miswanto, I Pronoto, H. Muhamad, and D. Mahayana, The Collective Behavior of Multi-Agenss System for Tracking a Desired Path, *International Journal of Basic & Applied Scinces IJBAS-IJENS*, 11:1, (2011).
- Sumarti, N., Hidayat, R., A financial risk analysis: Does the 2008 financial crisis give impact on weekend's returns of the U.S. movie Box Office?, *IAENG International Journal of Applied Mathematics*, 41:4, (2011).
- Miswanto, I Pronoto, H. Muhamad, and D. Mahayana, The Control Design of Symmetric System for Tracking A Desired Path with An Obstracle Using Tracking Error Dynamics, Contributions in Mathematics and Application III, A Special Vol. 2010 Published by East West Journal of Mathematic, (2011).

- Naiborhu, J., Trajectory following method on output regulation of affine nonlinear control systems with relative degree not well defined, *ITB J. Sci.*, **43:2**, (2011).
- Wiryanto, L.H., Widjaja, J., Supriyanto, H.B., Free-surface flow under a sluice gate from deep water, *Bulletin of the Malaysian Mathematical Sciences Society*, 34:3, (2011).
- N. Nuraini, R. Irawan, Zulkifli, & E. Soewono, Mathematical Modeling of HIV/AIDS Transmission among Injecting Drug Users with Methadone Therapy, *Asian Transactions on Basic & Applied Sciences (ATBAS ISSN: 2221-4291) Volume 01 Issue 05*, (2011).
- J. Naiborhu, Trajectory Following Method on Output Regulation of Affine Nonlinear Control Systems with Relative Degree not Well Defined, *ITB J. Sci.*, 43A, 1, (2011).
- Vetra; Simanjutak R; Baskoro ET, Large bipartite cayley graphs of given degree and diameter, *Discrete Mathematics*, (2011).
- Asmiati; Assiyatun H; Baskoro ET, Locating-chromatic number of amalgamation of stars, *ITB Journal of Science*, (2011).
- Ngurah; Baskoro ET, Tomescu I, Magic Graphs with pendant edges, *Ars Combinatoria*, (2011).
- T.K.Maryati, E.T.Baskoro, A.N.M.Salman, Irawati, On the path (super)magicness of some cycles with some pendants, (2011).
- Vetrik T.; Simanjutak R; Baskoro ET, Large bipartite cayley graphs of given degree and diameter, *Discrete Mathematics*, (2011).
- Asmiati; Assiyatun H; Baskoro ET, Locating-chromatic number of amalgamation of stars, *ITB Journal of Science*, (2011).
- M. Ba^{ca}, E.T. Baskoro, A.N.M. Salman, S.W. Saputro, D. Suprijanto, The metric dimension of regular bipartite graphs, *Bull. Math. Soc. Sci. Roumanie, Tome*, 54:1, (2011).
- H. Iswadi, E.T. Baskoro, R. Simanjuntak, On the metric dimension of corona product of graphs., *Far East Journal of Mathematical Sciences (FJMS)*, (2011).
- Muhamad Arzaki; Djoko Suprijanto, Note on Elementary Contructions of Self-dual codes over Z_8 , *International Mathematical Forum*, **6:16**, (2011).
- Djoko Suprijanto, On Euclidean tight 6-designs : Experimntal result, *ITB Journal of Science*, **43:1**, (2011).
- Baig, A.Q., Ahmad, A., Tri Baskoro, E., Simanjuntak, R, On the super edge-magic deficiency of forests, *Utilitas Mathematica*, 86, (2011).
- Mutaqin; Darwis, S; Tampubolon D., Djojogugito, Estimation of Outstanding claims liability using empirical moments of correlated random sum, *International Journal of Applies Mathematics and Statistics*, (2011).
- Sutawanir Darwis, Agus Yodi G, Aceng Komarudin, Nina Fitriyati, EnKF Estimation: Comparison of Analytical and Numerical Forecast Step, *Far East Journal of Theoretical Statistics JFTS*, (2011).
- Sapto W Indratno, Alexander G. Ramm, A Collocation method for solving some integral equations in distributions, *Journal of Computational and Applied Mathematics*, (2011).

- Roberd Saragih, Parameters optimization of Flexible Structure Using Genetic Algorithm, *Proceeding of the 9th IEEE International Conference on Control and Automation*, Santiago, 19-21 December, 2011.
- Bobby Eka Gunara, Static Spacetimes of Constant Scalar Curvature of Einstein-Maxwell-Higgs Theory in $d \geq 4$ Dimensions, *AIP Proceeding of International Conference on Research and Education in Mathematics*, 5, 2011
- Seramika Ari Wahyoedi, Bobby Eka Gunara, Multi-Centered Metric on $(n+1)$ -Dimensional Static Spacetimes, *AIP Proceeding of International Conference on Research and Education in Mathematics*, 5, 2011
- N. Inayah, A.N.M. Salman, R. Simanjuntak, K.I.A. Syuhada, Super (a,d) -cycle-antimagic total labelings for the vertex and edge amalgamation of n copies of isomorphic cycles, *Proceedings of the 3rd International Conferences and Workshops on Basic and Applied Sciences*, (2011) 625-629.
- Fatimah A. Noor, Muhammad F. Sahdan, Panji Achmari, Ferry Iskandar, Mikrajuddin Abdullah, and Khairurrijal, Electron Tunnel Current through HfO₂/SiO₂ Nanometer-thick Layers with a Trapped Charge: Effects of Electron Incident Angle and Silicon Substrate Orientation, *AIP Conference Proceedings*, Vol. 1415 (2011), pp. 32-35.
- Panji Achmari, Muhammad F. Sahdan, Fatimah A. Noor, Ferry Iskandar, Mikrajuddin Abdullah, and Khairurrijal, Simulation of Electron Tunnel Current through HfO₂/SiO₂ Nanometer-thick Layers with a Trapped Charge of a MOS Capacitor using a Transfer-matrix Method, *AIP Conference Proceedings*, Vol. 1415 (2011), pp. 71-74.
- Muhammad F. Sahdan, Panji Achmari, Fatimah A. Noor, Ferry Iskandar, Mikrajuddin Abdullah, and Khairurrijal, An Analysis of Electron Direct Tunneling Current through a High-K MOS Capacitor by Including the Effect of a Trap between HfO₂ and SiO₂ Interfaces, *AIP Conference Proceedings*, Vol. 1415 (2011), pp. 75-78.
- Masturi, Euis Sustini, Khairurrijal, and Mikrajuddin Abdullah, Resistors Network Model of bcc Cell for Investigating Thermal Conductivity of Nanofluids, *AIP Conference Proceedings*, Vol. 1415 (2011), pp. 86-89.
- Masturi, Hasniah Aliah, Mahardika Prasetya Aji, Adi Ardian Sagita, Minsyahril Bukit, Euis Sustini, Khairurrijal, and Mikrajuddin Abdullah, Effect of Silica Nanoparticles on Compressive Strength of Leaves-waste Composite, *AIP Conference Proceedings*, Vol. 1415 (2011), pp. 90-93.
- Mahardika Prasetya Aji, Rahmawati, Masturi, Satria Bijaksana, Khairurrijal, and Mikrajuddin Abdullah, Electrical and Magnetic Properties of Polymer Electrolyte PVA.LiOH Dispersed by Fe₃O₄ Nanoparticles, *AIP Conference Proceedings*, Vol. 1415 (2011), pp. 94-97.
- Sahrul Saehana, Rita Prasetyowati, Marina I. Hidayat, Pepen Arifin, Khairurrijal, and Mikrajuddin Abdullah, Performance Improvement of TiO₂ Based Solar Cells by Coating Cu Nanoparticles into the Space between TiO₂, *AIP Conference Proceedings*, Vol. 1415 (2011), pp. 163-166.
- Bebeh W. Nuryadin, Irfana Diah Faryuni, Ferry Iskandar, Mikrajuddin Abdullah, and Khairurrijal, Effect of Silica Nanoparticles on the Photoluminescence Properties of BCNO Phosphor, *AIP Conference Proceedings*, Vol. 1415 (2011), pp. 171-174.
- Abdurrahman Ali, Ferry Iskandar, Mikrajuddin Abdullah, and Khairurrijal, Analysis of Mechanical Properties of Single-wall Carbon Nanotube by Using Finite Element Method, *AIP Conference Proceedings*, Vol. 1415 (2011), pp. 200-204.
- Budi Mulyanti, Lilik Hasanah, Tuti Suartini, and Khairurrijal, Electron Velocity Effect on the Tunneling Current through the GaN:Mn/GaN/InGaN Heterostructure,

- International Conference on Physics and Applied Physics*, Bandung, 10-11 November 2011
- Fatimah A. Noor, Muhammad F. Sahdan, Panji Achmari, Ferry Iskandar, Mikrajuddin Abdullah, and Khairurrijal, Modeling of Electron Transmittance and Tunneling Current through an Interfacial Oxide-High-k-Gate-Stack by Including Transverse-Longitudinal Kinetic Energy Coupling and Anisotropic Masses: Effects of Metal Work Function, *International Conference on Physics and Applied Physics*, Bandung, 10-11 November 2011
- Menik Ariani, Zaki Su'ud, Abdul Waris, Khairurrijal, Fiber Monado, Design of Small Gas Cooled Fast Reactor with Two Region of Natural Uranium Fuel Fraction, *International Conference on Physics and Applied Physics*, Bandung, 10-11 November 2011
- Sianipar A., Amran M.B., Buchari, Arcana I.M., Zircon Imprinted Polymer: Synthesis, Characterization and Zircon Ion Adsorption Properties, *International Conference on Basic Science*, 380-385.
- Murniati A., Buchari, Gandasasmita S., Nurachman Z., Effect of Pyrrole (Py) Concentration and the Number of Cycles during Electropolymerization of Pyrrole (Py) on Platinum Electrode, *International Conference on Basic Science*, Malang, 2011, 386-392.
- Koesmawati T.A., Buchari, Sulaeman A., Ibrahim S., Francesconi K.A., *Sample Preparation Technique for Total Arsenic in Tuna Fish*, *International Conference on Basic Science*, Malang, 2011, 470-473.
- Noviandri, I., Mortalisa, M., Lignin modified carbon paste electrode for voltammetric determination of lead in soil, *International Congress on Analytical Sciences (ICAS)*, Kyoto 2011.
- Murniati, A., Buchari, Gandasasmita, S., Nurachman, Z., Polypyrrole Polyphenol Oxidase (PPy-PPO) Coated Platinum Wire Electrode, *International Congress on Analytical Sciences (ICAS)*, Kyoto 2011.
- Irdhawati, Tatsumi, H., Buchari, Noviandri, I., Ibrahim, S., Cyclic Voltammetric Detection of Ephedrine Ion Transfer Across the Water/Nitrobenzene Interface, *International Congress on Analytical Sciences (ICAS)*, Kyoto 2011.
- Saprudin, D., Setyoningsih, S., Maddu, A., Buchari, Noviandri, I., Abdullah, M., Synthesis of Magnetite Nanocrystal Used Urea as Modifier for the Voltammetric Determination of Chromium(VI), *International Congress on Analytical Sciences (ICAS)*, Kyoto 2011.
- Rahayu, R.S., Noviandri, I., Buchari, Fly Ash Modified Carbon Paste Electrode for Amperometric Determination of Dopamine in the Presence of Ascorbic Acid, *International Congress on Analytical Sciences (ICAS)*, Kyoto 2011.
- D. Herdiwijaya dan E. P. Arumaningtyas, Pengukuran Kecerlangan Langit Arah Zenith di Bandung dan Cimahi dengan Menggunakan Sky Quality Meter, *Prosiding Seminar Himpunan Astronomi Indonesia* (eds. B. Dermawan et al.), 2011, pp. 6-8
- S. Permani dan P. W. Premadi, Membangun Sistem Bantu Ajar Astronomi pada Tingkat Sekolah Menengah, *Prosiding Seminar Himpunan Astronomi Indonesia* (eds. B. Dermawan et al.), 2011, pp. 19-22
- W. Liliawati dan D. Herdiwijaya, Analisis Kebutuhan Astronomi Terintegrasi Berbasis Kecerdasan Majemuk (TKM) untuk Membekalkan Literasi Astronomi, *Prosiding Seminar Himpunan Astronomi Indonesia* (eds. B. Dermawan et al.), 2011, pp. 23-26

- D. O. A. Irawan, M. Yusuf, A. Nasrulloh, dan H. L. Malasan, Pengembangan Misi Jejaring Pengamatan Hilal dan Video Streaming, Prosidings Seminar Himpunan Astronomi Indonesia (eds. B. Dermawan et al.), 2011, pp. 27-29
- D. Herdiwijaya, S. Nurlaela, Y. Fadilah, S. Kurnia, dan Adam, Penentuan Waktu Gerhana Bulan Total 16 Juni 2011 Berdasarkan Sky Quality Meter, Prosidings Seminar Himpunan Astronomi Indonesia (eds. B. Dermawan et al.), 2011, pp. 32-34
- R. Priyatikanto and M. I. Arifyanto, N-body Model of Open Cluster Remnant NGC 1901, Prosidings Seminar Himpunan Astronomi Indonesia (eds. B. Dermawan et al.), 2011, pp. 44-47
- K. Anggivirgo dan P. W. Premadi, Peran Interaksi Galaksi dalam Pembentukan Galaksi E+A, Prosidings Seminar Himpunan Astronomi Indonesia (eds. B. Dermawan et al.), 2011, pp. 48-51
- T. Hidayat, Tinjauan Kandungan Uap Air di Atmosfer untuk Penentuan Situs Astronomi di Indonesia, Prosidings Seminar Himpunan Astronomi Indonesia (eds. B. Dermawan et al.), 2011, pp. 57-60
- P. Mahasena, P. Irawati, D. Herdiwijaya, and F. P. Zen, Core Mass of $3 - 9 M_{\text{sun}}$ Stars Determined Using Binding Energy Criteria, Prosidings Seminar Himpunan Astronomi Indonesia (eds. B. Dermawan et al.), 2011, pp. 73-76
- F. D. Rahayu dan P. Mahasena, Studi Kelimpahan Planetary Nebulae: NGC 2440 dan IC 2501, Prosidings Seminar Himpunan Astronomi Indonesia (eds. B. Dermawan et al.), 2011, pp. 81-84
- S. Siregar and R. N. Pratama, Kepler's Constant and WDS Orbit, Prosidings Seminar Himpunan Astronomi Indonesia (eds. B. Dermawan et al.), 2011, pp. 91-94
- E. Soegiartini, I. Radiman, dan S. Siregar, Efek Relativitas Umum pada Evolusi Orbit Asteroid 1566 Icarus, Prosidings Seminar Himpunan Astronomi Indonesia (eds. B. Dermawan et al.), 2011, pp. 95-98
- B. Dermawan, Kandidat Obyek Ko-orbital Tipe Non-Trojan dengan Jupiter, Prosidings Seminar Himpunan Astronomi Indonesia (eds. B. Dermawan et al.), 2011, pp. 99-102
- R. Rahida dan B. Dermawan, Dinamika Lompatan-Orbital Asteroid pada Daerah Resonansi Gerak-rerata 3:2 dan 2:3 Bumi, Prosidings Seminar Himpunan Astronomi Indonesia (eds. B. Dermawan et al.), 2011, pp. 103-106
- I. F. Imaniah dan B. Dermawan, Resonansi Kozai Asteroid Dekat-Bumi pada Orbit Komet, Prosidings Seminar Himpunan Astronomi Indonesia (eds. B. Dermawan et al.), 2011, pp. 107-110