



DAFTAR PUSTAKA

- Adamus, J., 2007, *Forming of Titanium Implants and Medical Tools by Metal Working*, Archives of Materials Science and Engineering, vol. 28, pp. 313-316.
- Adetunji, A. R., Olorunniwo, O. E., and Akomolafe, I. I., 2009, *Monitoring, Control, and Prevention Practises of Biomaterials Corrosion- An Overview*, Trends Biomaterials Artificial Organs, pp. 93-104.
- Ahmed A. A., Mhaede, M., Wollmann, M., and Wagner, L., 2014, *Effect of Surface and Bulk Plastic Deformations on The Corrosion Resistance and Corrosion Fatigue Performance of AISI 316L*, Surface & Coatings Technology, Elsevier, vol. 0257-8972, pp. 448-455.
- Ahmed, A. A., Mhaede, M., Basha, M., Wollmann, M., and Wagner, L., 2015, *The Effect of Shot Peening Parameters and Hydroxyapatite Coating on Surface Properties and Corrosion Behavior of Medical Grade AISI 316L Stainless Steel*, Surface & Coatings Technology, Elsevier, vol. 0257-8972, pp. 347-358.
- Alipour, R., Khani, A.A., Mohammadi, R., and Rostami, S., 2016, *The Effect of Formation of Titanium Nitride Thin Film on Surface Characteristics of Titanium by Nitrogen Ion Implantation*, Chemical Research, Plasma Physics Research Centre, Science and Research Branch, Islamic Azad University, vol. 40, pp. 12-15.
- Andriyanti, W., Prama, H. S., dan Priyatoro, D., 2017, *Deposisi Lapisan Tipis Titanium Nitrida pada Stainless Steel 316 menggunakan Metode DC Sputtering*, Prosiding Pertemuan dan Presentasi Ilmiah Peneliti Dasar Ilmu Pengetahuan dan Teknologi Nuklir, PSTA-BATAN, Yogyakarta, 28 November 2017, hal. 155-160.
- Antunes, R. A., Lima, N. B., Rizzutto, M. A., Higa, O.Z., Saiki, S., and Costa, I., 2013, *Surface Interactions of A W-DLC-Coated Biomedical AISI 316L Stainless Steel in Physiological Solution*, J Mater Sci, Springer, vol. 24 (4), pp. 863-876.
- ASM, 1994, *Surface Engineering*, ASM Handbook, vol. 5, ASM International, Ohio.
- ASTM, 2005, *Annual Book of ASTM Standards*, ASTM International, Philadelphia, Pennsylvania.
- Bian, D., Zhou, W., Liu, Y., Li, N., Zheng, Y., and Sun, Z., 2016, *Fatigue Behaviors of HP-Mg, Mg-Ca and Mg-Zn-Ca Biodegradable Metals in Air and Simulated Body Fluid*, Acta Biomaterialia, Elsevier, vol. 41, pp. 351-360.



- Bombac, D., Brojan, M., Fajfar, P., Kosel, F., and Turk, R., 2007, *Review of Materials in Medical Applications*, RMZ-Materials and Geo-environment, vol. 54, pp. 471-499.
- Broek, D., 1984, *Elementary Engineering Fracture Mechanics*, Marthinus Nijhoff Publishers, Netherlands.
- Cabrera, E.S.P., Staia, M.H., Pérez, E.A.O., Teer, D.G., Méndez, Y.Y.S., Sosa, J.G.L.B., Chicot, D., and Lesage, J., 2010, *Fatigue Behavior of a 316L Stainless Steel Coated with a DLC Film Deposited by PVD Magnetron Sputter Ion Plating*, Materials Science and Engineering: A, Elsevier, vol. 527 (3), pp. 498-508.
- Callister Jr, W. D., 2007, *Material Science and Engineering - An Introduction*, 7th ed., John Wiley & Sons, Inc., New York.
- Carrión, J., Colon, J., Gonzalez, M., Rivera, J., and Rodriguez, G., 2004, *Biomechanics of Orthopedic Fixations*, Application in Engineering Mechanics and Medicine, GED, University of Puerto Rico, Mayaguez, pp. 1-29.
- Chang R.C., Chen F. Y., Chuang C. T., and Tung Y. C., 2010, *Residual Stresses of Sputtering Titanium Thin Films at Various Substrate Temperatures*, Journal of Nanoscience and Nanotechnology, vol. 10, pp. 4562–4567.
- Chen, X. H., Lu, J., Lu, L., and Lu, K., 2005, *Tensile Properties of A Nanocrystalline 316L Austenitic Stainless Steel*, Scripta Materialia, vol. 52, pp. 1039-1044.
- Creus, J., Mazile, H., and Idrisi, H., 2000, *Porosity Evaluation of Protective Coatings onto Steel Through Electrochemical Techniques*, Surface and Coatings Technology, vol. 130, pp. 224-232.
- Daria, N. A., 1990, *Ion Implantation*, Physical Encyclopedia (in Russian). Vol. 2, Ed. by A. M. Prokhorov, Sovetskaja Ehnciklopedija, Moscow.
- Darmanto, 2010, *Pengaruh Implantasi Ion Nitrogen terhadap Kekerasan Permukaan Stainless Steel 316L untuk Aplikasi Sendi Lutut Tiruan*, Prosiding Seminar Nasional UNIMUS, hal. 268-272.
- Davis, J. R., 2003, *Handbook of Materials for Medical Devices*, ASM International, Ohio.
- Dieter, G. E., 1961, *Metallurgy and Metallurgical Engineering*, McGraw Hill Book, New York.
- DIN 4768, 1990, *Roughness Measurement Methodology*, German Institute for Standardisation (Deutsches Institut für Normung), German.
- Dobrzanski, L. A., Skrzypek, S., Pakula, D., Kriz, A., dan Mikula, J., *Influence of the PVD and CVD Technologies on the Residual Macro-stresses and Functional Properties of the Coated Tool Ceramics*, Journal of Achievements in Materials and Manufacturing Engineering, vol. 35, pp. 162-168.



- Dresselhaus, M. S., dan Kalish, R., 1992, *Ion Implantation in Diamond, Graphite and Related Materials*, vol. 22, Springer Series in Materials Science, New York.
- Edward, A. B., 2015, *Researching Advances in the Use of Shot Peening for Corrosion Fatigue Mitigation in Steam Turbine Blades, Mechanical and Aeronautical Engineering*, EDEM, University of Pretoria, South Africa.
- Edward, A. B., 2016, *Shot Peening Modeling and Simulation for RCS Assessment*, Procedia Manufacturing, Elsevier, vol. 7, pp. 172-177.
- Farrahi, G. H., Lebrun, J. L., and Couratin, D., 1995, *Fatigue Effect of Shot Peening on Residual Stress and Fatigue life of A Spring Steel*, *Fatigue Fract. Eng. Mater.*, vol. 18, pp. 211-220.
- Fontana, M. G., 1987, *Corrosion Engineering*, Third Edition, McGraw Hill Book, New York.
- Fuentes, L. G., Sanchez, E. G., Hernandez, A. J., and Rodriguez, M. A. L. H., 2015, *Failure Analysis in 316L Stainless Steel Supracondylar Blade Plate*, *Engineering Failure Analysis*, Elsevier, vol. 57, pp. 243-247.
- Gdoutos, E. E., 2005, *Fracture Mechanics - An Introduction*, Second Edition, Democritus University of Thrace, Xanthi, Greece, Springer, Netherlands.
- George, J., 1992, *Preparation of Thin Films*, Marcel Decker, Inc, New York.
- Gervais, B., 2016, *Case Studies in Engineering Failure Analysis Failure Analysis of a 316L Stainless Steel Femoral Orthopedic Implant*, *Biochem. Pharmacol.*, vol. 5-6, pp. 30-38.
- Giat, S. S., Soeharto, Rahmawati, D. I., dan Sujitno, T., 2012, *Pengaruh Implantasi Ion Titanium Nitrida terhadap Sifat Mekanik Biokompatibel Material AISI 316L*, *Journal of Materials Science*, Edisi Khusus Material untuk Kesehatan, hal. 22-26.
- Gobbi, A. L., and Nascente, P. A. P., 2013, *Encyclopedia of Tribology*, Springer, Boston.
- Goyal, A., 2013, *Ion Implantation*, Research Report, Department of Electronics and Comm. Engineering, Malaviya National Institute of Technology Jaipur.
- Gupta, R. K., Prasad, N., Rai, A. K., Biswal, R., Sundar, R., Bose, A., Ganesh, P., Ranganathan, K., Bindra, K. S., and Kaul, R., 2018, *Corrosion Study on Laser Shock Peened 316L Stainless Steel in Simulated Body Fluid and Chloride Medium*, *Lasers in Manufacturing and Materials Processing*, Springer Nature, vol. 5, pp. 270-282.
- Habib, A. A. A., Prayoto, and Anggraita, P., 2005, *Efek Implantasi Ion Tembaga terhadap Sifat Ketahanan Korosi Baja Tahan Karat Austenitik dalam Media Asam Khlorida*, Prosiding PPI-PDIPN 2005 Pupslitbang Teknologi maju - BATAN Yogyakarta 12 Juli 2005, hal. 276-282.



- Hallab., N. J., Jacobs, J. J., and Katz, J. L., 2004, *Application of Materials in Medicine, Biology, and Artificial Organs: Orthopedic Applications, Biomaterials Science*, Elsevier Academic Press, Amsterdam.
- Hashemi, B., Yazdi, M. R., and Azar, V., 2011, *The Wear and Corrosion Resistance of Shot Peened-Nitrided 316L Austenitic Stainless Steel*, Material and Design, vol. 32, pp. 3287-3292.
- Hench, L. L., 1991, *Bioceramics: From Concept to Clinic*, Journal of the American Ceramic Society, vol. 74 (7), pp. 1487-1510.
- Herman, H., 1981, *Modification of The Surface Mechanical Properties of Ferrous by Nitrogen Ion Implantation*, Proceeding of 3 rd International Conference on Modification of Surface Properties of Metals by Ion Implantation, Elsevier, Pergamon Press, Oxford.
- Hetram, Singh, L., and Om, H., 2015, *Shot Peening Effects on Material Properties*, International Journal for Innovative Research in Science & Technology, vol. 1 (12), pp. 480-484.
- Hilgendorff, P., and Zimmermann, M., 2017, *Cyclic Deformation Behavior of Austenitic Stainless Steels in the Very High Cycle Fatigue Regime - Experimental Results and Mechanism - Based Simulations*, J. Mater. Res., Cambridge University Press, vol. 32 (23), pp. 4387-4398.
- Hsu, J., Wang, D., Kahn, H., Ernst, F., Michal, G. M., and Heuer, A. H., 2013, *Fatigue Crack Growth in Interstitially Hardened AISI 316L Stainless Steel*, Int. J. Fatigue, vol. 47, pp. 100-105.
- Huang, L., Zhou, B., Wu, H., Zheng, L., and Zhao, J., 2016, *Effect of Apatite Formation of Biphasic Calcium Phosphate Ceramic (BCP) on Osteoblastogenesis Using Simulated Body Fluid (SBF) With or Without Bovine Serum Albumin (BSA)*, Materials Science and Engineering C, Elsevier, vol. 0928-4931, pp. 1-6.
- Ibrahimian, H., Ghorannevis, M., Shokouky, A., M., Eshghabadi, M., and Hanifeh, D., 2009, *Effect of Nitrogen Ion Implantation on Corrosion Resistance of Ti Films Deposited on Steel 304 by Ion Beam Sputtering*, J Plasma Fusion Res. Series, vol. 8, pp. 1389-1391.
- Istiyono, E., 2008, *Implantasi Ion sebagai Upaya Modifikasi Sifat Mekanik dan Elektrik Bahan*, Seminar Nasional Penelitian, Pendidikan dan Penerapan MIPA, Yogyakarta, 30 Mei 2008, hal. 41-50.
- Iswanto, P. T., Putra, A.W.N., dan Sunardi, 2013, *Pengaruh Implantasi Ion Titanium Nitrida dan Ion Nitrogen terhadap Kekerasan dan Ketahanan Aus Material Axial Ball Bearing MRK 51104*, Prosiding Seminar Nasional ke-8 Tahun 2013: Rekayasa Teknologi Industri dan Informasi, Sekolah Tinggi Teknologi Nasional, 14 Desember 2013, hal. 146-150.
- Jafari, A., Meshkani, S., and Ghoranneviss, M., 2016, *The Study of Surface Properties of Tokamak First Wall Using TiN Coated on Stainless Steel*, Journal of Fusion Energy, Springer, vol. 35, pp. 235-239.



Jatisukamto, G., Malau, V., Ilman M. N., dan Iswanto, P. T., 2011, *Perbaikan Sifat Korosi Baja Tahan Karat AISI 410 dengan Perlakuan Implantasi Ion TiN*, Jurnal Ilmiah Teknik Mesin CakraM, vol. 5 (1), hal. 14-19.

Jebaraj, V. A., and Sugavaneswaran, M., 2019, *Influence of Shot Peening on Residual Stress Distribution and Corrosion Resistance of Additive Manufactured Stainless Steel AISI 316L*, The Indian Institute of Metals, Springer, pp. 1-3.

Jones, D. A., 1991, *Principles and Prevention of Corrosion*, McMilman Publishing Company, New York.

Kartikasari, K., Soekrisno, dan Sudjatmoko, 2001, *Studi Pengaruh Implantasi Ion Karbon terhadap Kekerasan Permukaan Baja AISI 1040*, Media Teknik, No. 2, Tahun XXIII.

Kokubo, T., and Takadama, H., 2006, *How Useful is SBF in Predicting in Vivo Bone Bioactivity?*, Biomaterials, Elsevier, vol. 27, pp. 2907-2915.

Kudryavtsev, Y. F., 2008, *Residual Stress*, Springer Handbook of Experimental Solid Mechanics, Editor: W.N. Sharpe, Jr., Springer, New York.

Lee, S. H., Yoon, K. H., Cheong, D. S., and Lee, J. K., 2003, *Relationship Between Residual Stress and Structural Properties of AlN Films Deposited by R. F. Reactive Sputtering*, Thin Solid Films, vol. 435, pp. 193-198.

Li, C. X., and Bell, T., 2006, *Corrosion Properties of Plasma Nitride AISI 410 Martensitic Stainless Steel in 3.5 % NaCl and 1 % HCl*, Corrosion Science, vol. 48, pp. 2036-2049.

Lippold, J. C., and Kotecki, D.J. 2005, *Welding Metallurgy and Weldability of Stainless Steel*, Wiley Interscience, A John Wiley and Sons, Inc., New Jersey.

Lucaszkowicz, K., Dobrzanski, L. A., and Pancielejco, M., 2007, *Mechanical Properties of the PVD Gradient Coatings Deposited onto the Hot Work Tool Steel X40CrMoV5-1*, Journal of Achievements in Materials and Manufacturing Engineering, vol. 24, pp. 115-118.

Malau, V., Subagyo, and Supriyanto, 2014, *Effects of Heat Treatment and Titanium Nitride (TiN) Coating Deposited by Sputtering Technique PVD on Duylos 2510 Tool Steel Substrate*, Applied Mechanics and Materials, vol. 493, pp. 666-672.

Malau, V., Priyambodo, B.H., Iswanto, P.T., and Sujitno, T., 2018, *Increased Hardness, Corrosion Resistant and Corrosion Fatigue Cracking Performance on AISI 304 by DC Sputtering*, International Review of Mechanical Engineering, vol. 12(12), pp. 1-6



- Mariappan, K., Shankar, V., Sandhya, R., and Bhaduri, A. K., 2016, *A Comparative Evaluation of the Effect of Low Cycle Fatigue and Creep - Fatigue Interaction on Surface Morphology and Tensile Properties of 316L (N) Stainless Steel*, Mater. Trans. A, vol. 47 (4), pp. 1575-1586.
- Naghibi, S. A., Raeissi, K., and Fathi, M.H., 2014, *Corrosion and Tribocorrosion Behavior of Ti/TiN PVD Coating on 316L Stainless Steel Substrate in Ringer's Solution*, Materials Chemistry and Physics, Elsevier, vol. 148, pp. 614-623.
- Newson, T., 2002, *Stainless Steel A Family of Medical Devices*, Business Briefing: Medical Device Manufacturing & Technology 2002, World Markets Research Centre, London.
- Nishida, S., 1992, *Failure Analysis in Engineering Application*, Butterworth Heinemann, Elsevier, Oxford.
- Obrlík, K., Jirásková, Y., Man, J., and Polák, J., 2005, *Effect of Surface Carbonitriding by Plasma Immersion Ion Implantation on the Fatigue Behaviour of 316L Austenitic Stainless Steel*, WIT Transactions on Engineering Sciences, WIT Press, vol. 49, pp. 13-22.
- Ortiz, J. A. B., Sosa, J. G. L. B., Teer, D. G., and Cabrera, E. S. P., 2004, *Fatigue properties of a 316L stainless steel coated with different ZrN deposits*, Surface and Coatings Technology, Elsevier, vol. 179 (2-3), pp. 145-157.
- Peltz, J.d.S., Beltrami, L.V.R., Kunst, S.R., Brandolt, C., and Malfatti, C.d.F., 2015, *Effect of the Shot Peening Process on the Corrosion and Oxidation Resistance of AISI 430 Stainless Steel*, Materials Research, vol. 18 (3), pp. 538-545.
- Perez, N., 2004, *Fracture Mechanics*, Department of Mechanical Engineering University of Puerto Rico New York, Kluwer academic publishers, New York.
- Perillo, P. M., 2006, *Corrosion Behavior of Coating of Titanium Nitride and Titanium-Titanium Nitride on steel Substrates*, Corrosion, vol. 62, pp. 182-185.
- Phelps, G. J., 2004, *Dopant Ion Implantation Simulations in 4H-Silicon Carbide*, Modelling and Simulation in Materials Science and Engineering, IOP Publishing, vol. 12 (6), pp. 1139-1146.
- Pudjorahardjo, D. S., Salam, A., dan Susita, L.R.M, 2003, *Kajian Teknologi Akselerator Ion untuk Rekayasa Bahan*, Prosiding Pertemuan dan Presentasi Ilmiah Teknologi, Oktober 2003, Vol. 5 (1), hal. 84-91.
- Rachim, T, 2001, *Spesifikasi, Metrologi dan Kontrol Kualitas Geometrik*, Institut Teknologi Bandung, Bandung.
- Roylance, D., 2001, *Introduction to Fracture Mechanics*, Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts.



- Ryssel, H. I, 1986, *Ion Implantation*, John Willey & Sons, New York.
- Sachs, N. W. P. E., 2007, *Practical Plant Failure Analysis, A Guide to Understanding Machinery Deterioration and Improving Equipment Reliability*, Taylor & Francis, Boca Raton.
- Sayono, Suprapto, dan Sunardi, 2006, *Pembuatan Lapisan Tipis SnO₂ dengan Metode Sputtering DC untuk Sensor Gas CO*, Ganendra, vol. 9 (2), hal. 21-30.
- Shackelford, J. F., 1996, *Introduction to Materials Science for Engineers*, Prentice Hall Inc., New Jersey.
- Sharma A, Kumar A, Joshi G, and John J. T., 2011, *Retrospective Study of Implant Failure in Orthopaedic Surgery*, Med. J. Armed Forces India, vol. 62, pp. 70-72.
- Shen, H. N., and Mai, Y. W, 2000, *Effect of Deposition Conditions on Internal stresses and Microstructure of Reactively Sputtered Tungsten Nitride Films*, Surface and Coatings Technology, Elsevier, vol. 127 (2-3), pp. 238-245.
- Sibilia, 1991, *A Guide to Materials Characterization and Chemical Analysis*, Journal of Applied Crystallography, vol. 24 (3), pp. 265-266.
- Singh, L., Khan, R. A., and Aggarwal, M. L., 2010, *Effect of Shot Peening on Hardening and Surface Roughness of Nitrogen Austenitic Stainless Steel*, Int. J. Eng. Sci. Technol., vol. 2 (5), pp. 818-826.
- Sioshansi, P., 1987, *Surface Modification of Industrial Components by Ion Implantation*, Nuclear Instruments and Methods in Physics Research, vol. 24-25, pp. 506-511.
- Stueber, M., Holleck, H., Leiste, H., Seemann, K., Ulrich, S., and Ziebert, C., 2009, *Concept for the Design of Advantage Nano-scale PVD Multilayer Protective Thin Films*, Journal of Alloys and Compounds, vol. 483, pp. 321-333.
- Sujita, 2011, *Pengaruh Perlakuan Shot Peening terhadap Korosi Retak Tegang Baja Karbon Rendah pada Lingkungan Korosif*, Jurnal Teknik Mesin, vol. 1 (2), hal. 1-4.
- Sunardi, Priyo Tri Iswanto, dan Mudjijana, 2015, *Peningkatan Ketahanan Korosi pada Material Biomedik Plat Penyambung Tulang SS304 dengan Gabungan Metode Shot Peening dan Electroplating Ni-Cr*, Jurnal Ilmiah Semesta Teknika, vol. 8 (2), hal. 160-167.
- Sunendar, B., dan Hermawan, I.T, 2008, *Preparasi dan Karakterisasi Kalsium Ferit dari Keramik Biogelas Menggunakan Simulated Body Fluid (SBF) Ringer untuk Aplikasi Identifikasi Sel Kanker*, Jurnal Sains Material Indonesia, vol. 10 (1), hal. 1-6.
- Surdia dan Saito, 1999, *Pengetahuan Bahan Teknik*, PT. Pradnya Paramita, Cetakan IV, Jakarta.



- Sujitno, T., Santoso, A., Wiryoadi, Sayono, Sisanto, B., dan Susita, L., 2002, *Optimasi Parameter Proses Sputtering pada Deposisi Lapis Tipis Titanium Nitrida (TiN) pada Bahan Aluminium*, Prosiding Pertemuan dan Presentasi Ilmiah Penelitian Dasar Ilmu Pengetahuan dan Teknologi Nuklir, P3TM-Batan, Yogyakarta, 27 Juni 2002, hal. 156-165.
- Sujitno, T., 2006, *Pemanfaatan Implantor Ion 150 keV / 2 mA untuk Surface Treatment*, Prosiding Pertemuan dan Presentasi Ilmiah Teknologi Akselerator dan Aplikasinya, Edisi Khusus Juli 2006, hal. 62-69.
- Susita, L. R. M., Sudjatmoko, Sujitno, T., Darsono, Sulandari, S., Supardjono, 1996, *Karakterisasi Struktur Mikro Stainless Steel Hasil Implantasi Ion Nitrogen*, Prosiding Pertemuan dan Presentasi Ilmiah, PPNY-BATAN, Yogyakarta, 23 April 1996, hal. 50-56.
- Tanhaei, S., Gheisari, K., and Zaree, S. R. A., 2018, *Effect of Cold Rolling on the Microstructural, Magnetic, Mechanical, and Corrosion Properties of AISI 316L Austenitic Stainless Steel*, International Journal of Minerals, Metallurgy and Materials, vol. 25 (6), pp. 630-640.
- Thapa, N., Prayson, M., and Goswami, T., 2015, *A Failure Study of a Locking Compression Plate Implant*, Case Studies in Engineering Failure Analysis, Elsevier, vol. 3, pp. 68-72.
- Trethewey, K. R., dan Chamberlain, J., 1991, *Korosi untuk Mahasiswa Sains dan Material*, PT. Gramedia Pustaka Utama, Jakarta.
- Triantafyllidis G. K., Kasantzis A. V., and Karageorgiou K. T., 2007, *Premature Fracture of a Stainless Steel 316L Orthopedic Plate Implant by Alternative Episodes of Fatigue and Cleavage Decohesion*, Engineering Failure Analysis, vol. 14, pp. 1346-1350.
- Umemoto, M., 2003, *Nanocrystallization of Steel by Severe Plastic Deformation*, Material Transaction, vol. 44 (10), pp. 1900-1911.
- Wen, F. L., Lo, Y. L., and Yu, Y. C., 2007, *Surface Modification of SKD-61 Steel by Ion Implantation Technique*, JVST A, vol. 25 (4), pp. 1137-1142.
- Wirjoadi, Siswanto, B., dan Sudjatmoko, 2010, *Pengaruh Suhu Deposisi Lapisan Tipis TiN terhadap Sifat Mekanik Metal Hasil Plasma Sputtering*, Prosiding PPI - PDIPTN 2010 Pustek Akselerator dan Proses Bahan - BATAN, Yogyakarta, 20 Juli 2010, hal. 138-146.
- Wolf, B., 1995, *Handbook of Ion Sources*, CRC Press, New York.
- Yan, Y., Neville, A., Dowson, D., and William, S., 2006, *Tribocorrosion in Implants-Assessing High Carbon and Low Carbon Co-Cr-Mo Alloys by In Situ Electrochemical Measurements*, Tribology International, Elsevier, vol. 39, pp. 1509-1517.



- Yazici, M., O. Çomaklı, O., T. Yetim, T., Yetim, A.F., and Çelik, A., 2015, *The Effect of Plasma Nitriding Temperature on the Electrochemical and Semiconducting Properties of Thin Passive Films Formed on 316L Stainless Steel Implant Material in SBF Solution*, Surface & Coatings Technology, Elsevier, vol. 0257-8972, pp. 181-188.
- Yu, J., Zhao, Z. J., and Li, L. X., 1993, *Corrosion Fatigue Resistances of Surgical Implant Stainless Steels and Titanium Alloy*, Corrosion Science, Elsevier, vol. 35 (1-4), pp. 587-597.
- Yunanto, Sujitno, B. A. T., dan Suprapto, 2002, *Deposisi Lapisan Tipis AlZn untuk Pelindung Fe Bentuk As terhadap Korosi Cairan Garam*, Prosiding Pertemuan Ilmiah Ilmu Pengetahuan dan Teknologi Bahan, Serpong, 22-23 Oktober 2002, hal. 114-119.
- Zhao, J., Xu, D., Shahzad, M.B., Kang, Q., Sun, Y., Sun, Z., Zhang, S., Ren, L., Yang, C., and Yang, K., 2016, *Effect of Surface Passivation on Corrosion Resistance and Antibacterial properties of Cu-Bearing 316L Stainless Steel*, Applied Surface Science, Elsevier, vol. 386, pp. 371-380.
- Zhao, S. S., Du, H., Hua, W. G., Gong, J., Li, J. G., and Sun, C., 2007, *The Depth Distribution of Residual Stress in (Ti,Al)N Films: Measurements and Analysis*, Journal of Materials Research, Cambridge University Press, vol. 22 (10), pp. 2659-2662.