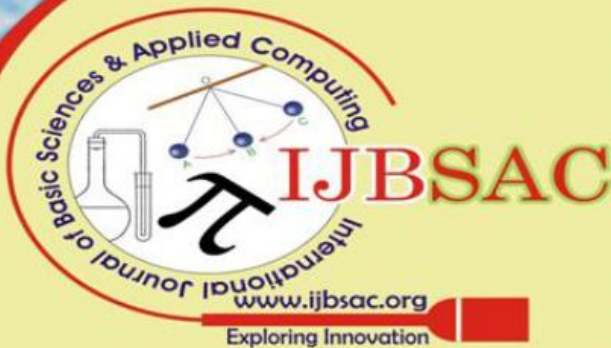
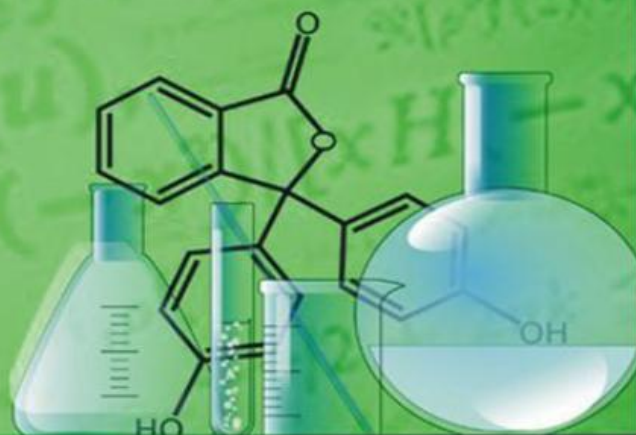
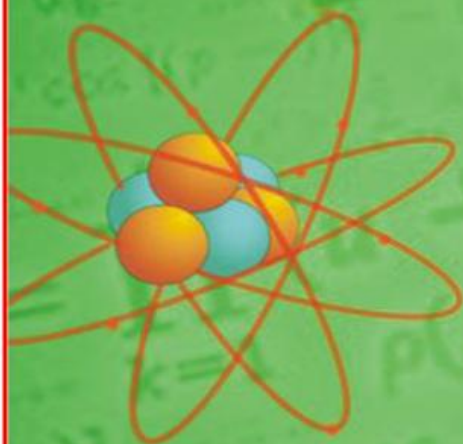


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1.	Authors:	Syamsuddin, Bambang Setiaji, Wega Trisunaryanti, Dan Harno Dwi Pranowo	
	Paper Title:	Characterization Methyl Ester Sulfonate (MES) from Coconut Oil	
	Abstract: Characterization methyl ester sulfonate of coconut oil has been done. In this research the characterization of methyl ester sulfonate (MES) that were observed include the influence of the ratio of moles of reactant against MES, viscosity influence reaction time against MES, viscosity ratio of moles of a reactant influence against the density of MES and the influence of the reaction time toward the density of MES. The measurement is carried out using equipment viscometer Brookfield and Density Meter DMA 4500M. The results showed that the condition of the production process of methyl ester surfactant sulfonate shows that the best conditions reached a ratio of moles of reactant 1:1.4; at long reaction 4.5 hours, viscosity 30.42 cP and density 0.9866 g/cm ³ .		1-3
	Keywords: Characterization, sulfonate (MES), DMA 4500M, Brookfield, ratio, reactant 1:1.4;		
	References: <ol style="list-style-type: none"> Ahmad S, Siwayanan P, Abd Murad Z, Abd Aziz H dan Seng Soi H. 2007. Beyond Biodiesel : Methyl Esters as the Route for the Production of Surfactants Feedstock. Inform (18) :216–220. Roberts DW, Giusti L, Forcella A. 2008. Chemistry of Methyl Ester Sulfonates. Biorenewable Resources 5 : 2-19. Gupta S dan Wiese D. 1992. Soap, Fatty Acids, and Synthetic Detergents. Didalam : Kent JA (ed). Riegel's Handbook of Industrial Chemistry. 9th Edition. New York : Van Nostrand Reinhold. Moreno JB, Bengoechea C, Bravo J dan Berna JL. 2003. A contribution to understanding secondary reactions in linear alkylbenzene sulfonation. Journal of Surfactants and Detergents, 6 (2) : 137 – 142. Nedjhioui M, Moulai-Mostefa N, Morsli A dan Bensmaili A. 2005. Combined effects of polymer/surfactant/oil/alkali on physical chemical properties. Desalination, 185 : 543 – 550. 		
2.	Authors:	Sana Alyaseri	
	Paper Title:	A Weighting Factor as A Tool To Adjust the Student's Grades: Web Development Project as A Case Study	
	Abstract: Group project is one of the most common assessment methods used in New Zealand Private Tertiary Establishments (PTEs). Group work is considered as a purposeful and valued learning approach as it enriches the experiential learning of group dynamic. However, for the possibility of student satisfaction and positive learning outcomes with group activities to be significantly improved certain points need to be achieved; effective group project processes are utilised, clear assessment instructions are developed and communicated, and valid and fair grading is employed for the project processes. On the other hand, if students cannot see the point of group projects or they are unsure of what is expected of them or think the assessment methods are invalid or the grading system is unfair; the educational benefits are reduced and tensions can emerge. In fact, the way in which students engage in a group project is mainly determined by the way in which they are to be assessed. For example, since not all group members have the same contribution, the students feel that giving the same mark to all members is unfair. As a result, some tertiary educators use a strategy called 'peer and self-assessment' as a method of determining how group marks are to be distributed among individuals [1]. This paper provides an approach to calculate the peer review points and adjust the individual grades. The proposed approach is called the weighting factor (Wf) that represents how much the contribution percentage is for each member of the group		4-9
	Keywords: Group project, Self and peer review, student assessment, Teamwork.		
	References: <ol style="list-style-type: none"> G. Kennedy, G., "Peer-assessment in Group Projects: Is It Worth It?", Australian Computer Society, Inc. , Australia. Conferences in Research and Practice in Information Technology, 2006, Vol. 42. Alison Young and Denise Tolhurst, Eds. Reproduction for academic. W. Davies, "Groupwork as a form of assessment: common problems and recommended solutions". High Educ, 2009. 58:5 pp. 63–584, DOI 10.1007/s10734-009-9216-y Published online: 20 March 2009, Springer Science+Business Media B.V. 2009. R. Watkins. "Group work and assessment, The Handbook for economic lectures", 2004, Kingston University. D. Hall, & S. Buzwell. "The problem of free-riding in group projects: Looking beyond social loafing as reason for non contribution". Active Learning in Higher Education Vol 14, no 1, 2012, pp. 37–49, sagepub.co.uk/ journalsPermissions.nav, DOI: 10.1177/1469787412467123, alh.sagepub.com J. Pearce, R. Mulder & C. Baik, "Involving students in peer review Case studies and practical strategies for university teaching", Centre for the Study of Higher Education The University of Melbourne, 2009, http://www.cshe.unimelb.edu.au Centre for Academic Development. "Group work and group assessment". 2013, Victoria university of wellington. D. Spiller, "Assessment Matters: Self-Assessment and Peer Assessment", Teaching Development, Wāhanga Whakapakari Ako, The university of Waikato, February 2009. J. Alden, "Assessment of individual student performance in online team project", Journal of Asynchronous Learning Networks, Volume 15, 2011, Issue 3. P. Willmot & K. Pond, "Multi-disciplinary Peer-mark Moderation of Group Work", International Journal of Higher Education, 2012, Vol. 1, No. 1; May 2012 , www.sciedu.ca/ijhe doi:10.5430/ijhe.v1n1p2. N. Elliott & A. Higgins, "Self and peer assessment – does it make a difference to student group work?", Nurse Education in Practice Vol. 5, 2005, pp. 40–48, www.elsevierhealth.com/journals/nepr. D. Hall and S. Buzwell, "The problem of free-riding in group projects: Looking beyond social loafing as reason for non-contribution", Vol. 14, 2012, issue. 1, pp. 37-49, DOI: https://doi.org/10.1177/1469787412467123 J. Fermelis, R. Tucker & S. Palmer, "Online self and peer assessment in large, multi-campus, multi-cohort contexts". In 		

	<p>Proceedings of ASCILITE - Australian Society for Computers in Learning in Tertiary Education Annual Conference 2007, pp. 271-281. Australasian Society for Computers in Learning in Tertiary Education.</p> <p>13. C. Cestone, R. Lvine, & D. Lane, "Peer Assessment and Evaluation in Team-Based Learning", NEW DIRECTIONS FOR TEACHING AND LEARNING, no. 116, Winter 2008, Wiley Periodicals, Inc. Published online in Wiley InterScience (www.interscience.wiley.com) • DOI: 10.1002/tl.334.</p> <p>14. R. Raban, & A. Litchfield, "Supporting peer assessment of individual contributions in group work", 2007. Australasian Journal of Educational Technology 2007, volume 23, no 1, pp 34-47.</p> <p>15. B. Friedman, P. Cox and L. Maher, "An expectancy theory motivation approach to peer assessment". Thesis, School of Business State University of New York at Oswego, 2008.</p> <p>16. H. Andrade and Y. Du, "Student responses to criteriareferenced self-assessment", Assessment & Evaluation in Higher Education Vol. 32, No. 2, April 2007, pp. 159-18.</p> <p>17. K. Pond, D. Coates and O. A. Palermo, "Student experiences of peer review marking of team projects". International journal of management education, Vol. 6, 2007, no.2, pp. 30-43.</p> <p>18. O. Onyia "Integrating teacher- and peer-assessments of group coursework assignments in business education: Some innovative methods", the Research in Higher Education Journal, Vol. 21, August, 2013.</p>	
	<p>Authors: Wael Zaghoul ElSayad</p>	
	<p>Paper Title: A New Method for Recovering Fine Gold from Sands</p>	
<p>3.</p>	<p>Abstract: The scarcity of gold in large quantities has led mining entities to turn to the exploitation of gold dust contained in refractory ores. However, the inadequacy of the various methods employed in the extraction of the gold dust often leads to unnecessary loss of the finest gold particles that are washed away by water or any other solution used in the process. The insatiable market demand for gold coupled with its scarcity, therefore, calls for improved methods to elevate the efficiency of extracting the gold dust. The froth flotation technique has, however, shown remarkable efficiency in the extraction of the fine gold particles contained in gold ores. The method uses a mixture of water and coal-oil that has naturally occurring ferrous sulfide which essentially acts as the surfactant. The improvement of the surface tension of water, the frothing produced by the coal-oil and the hydrophobicity nature of gold play an essential role in elevating the efficiency of the method in the extraction of gold dust.</p> <p>Keywords: The extraction of gold dust, the hydrophobicity, the ferrous sulfide, surface tension, light weights, non-toxic.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Manhattan Gold & Silver. (2014). Froth Flotation And Gold Extraction. https://www.mgsrefining.com/blog/post/2014/07/23/Froth-Flotation-and-Gold-Extraction.aspx. 2. Jian Zhang, Yao Zhang, William Richmond, and Hai-peng Wang. (2010). Processing Technologies For Gold-Telluride Ores. International Journal of Minerals, Metallurgy, and Materials 17.1. pp 1-10. 3. http://link.springer.com/article/10.1007/s12613-010-0101-6 4. Aldridge, Benjamin, and Nivaz Brar. (2016). Surface Tension. Chemistry LibreTexts. 5. Chin Hong Ooi, Chris Plackowski, Anh V. Nguyen, Raja K. Vadivelu, James A. St. John, Dzung Viet Dao & Nam-Trung Nguyen.(2016). Floating Mechanism Of A Small Liquid Marble. Scientific Reports 6. Article number: 21777. 6. Ramirez, Efrain. Floating Very Fine Gold Recovery. (2015). Gold Prospectors Association Of America – Forum. Gold Prospectors Association Of America - All Things Prospecting - Prospecting Tips & Tricks. Goldprospectors.org. 7. Michaud, David. (2016). Flotation Principles - Mineral Processing / Metallurgy". Mineral Processing / Metallurgy. 8. Marlies Elizabeth Wilhelmina van der Welle, Mieke Cuppens, Leon Peter Maria Lamers andJan Gisbert Maria Roelofs. (June 2006). Detoxifying toxicants: Interactions between sulfide and iron toxicity in freshwater wetlands. Environmental Toxicology and Chemistry. Volume 25, Issue 6, pages 1592-1597. 	<p>10-13</p>