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Cover Page, Introduction, Contents, Call for Papers, All papers in one file

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	Keywords: Einstein; mass energy; equivalence; blackhole		
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4	**Effect of instruction in Metacognitive self-assessment strategy on Chemistry Students self-efficacy and achievement** Jacobson Barineka Nbina, B. Viko University of Port Harcourt P.O. Box 3 Choba, Rivers State drnbinajacobson@yahoo.com **Abstract:** This study examined the effect of instruction in metacognitive self assessment strategy on senior secondary school students' Chemistry self-efficacy and achievement. The study also explored the interaction effect of instruction in metacognitive self assessment strategy and gender in their Chemistry self-efficacy and achievement. The study was guided by five research questions and four hypotheses. A non-equivalent control group pretest and posttest design involving one treatment and one control group was adopted. A total of 192 SS 2 students from Port Harcourt Education zone were used for the study. The Self Assessment Instructional Programme (SAIP) was developed, validated and used for the study. Three instruments: Chemistry Achievement Test (CAT), Self Assessment Scale (SAS) and Chemistry Self-efficacy scale (CSS) were adopted, validated and used for data collection. The results suggested that instruction in the metacognitive self assessment strategy improve the students' chemistry achievement and self-efficacy. [Academia Arena, 2010;2(8):34-43] (ISSN 1553-992X). **Keywords:** metacognitive; strategy; senior secondary school; students; Self Assessment Instructional Programme (SAIP); Chemistry Achievement Test (CAT); Self Assessment Scale (SAS); Chemistry Self-efficacy scale (CSS)	Full Text	4
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Abstract: The study was done on the nerometrics of the sahel goats using a total of 14 goats between the ages of <1½-3 years. The mean brain weight obtained was 96.14g, weight of the head, length of cerebrum, depth of cerebrum, length of cerebellum and depth of cerebellum were 1.19kg, 7.18cm, 3.81cm, 3.42cm and 2.77cm respectively. Animals >2-3years have slightly higher brain values than those <1½-2 years. The females have lower brain weight than males. Location has no effect on the neurometrical data of the sahel goats. The results obtained in this study can be used as a research data for neuroanatomy, neurophysiology and pharmacology, in animal psychiatry and in comparative studies between breed and species. [Academia Arena, 2010;2(8):44-47] (ISSN 1553-992X).

Key words: Brain, Sahel goat, Cerebrum, Cerebellum

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中国科学农村包围城市

李醒民

摘要：1. 江晓原引用钱钟书先生的话说：学问本属“荒江野老屋中二三素心之人相与培养讲求之事”，原本是要清静的。他最后还说了一句大白话：对学术成果来说，并非数量越多越好。2. 江晓原的另一个身份是科普作家，打比喻是他的强项：现在我们的某些管理者将办大学看成造房子，通常是事先计划好一切，工艺是现成的，材料是准备好的，按照规范和图纸操作，按照计划施工。“这是典型的工科思维方式。”江晓原特别介绍了西方对待学术的态度：在一块地里播一些种子，浇水施肥，里面会有一颗或若干颗结出果实。但事先人们并不知道哪颗种子能成长，哪颗种子会发育不良；如果其中一颗死掉了，并不意味着播种的失败，这只是一个概率的问题。所以，要资助足够数量的一批人，营造一个比较好的学术氛围，这样成果早晚会出来。[Academia Arena, 2010;2(8):48-60] (ISSN 1553-992X).

关键词：中国；科学；农村；城市；学术氛围

Full Text

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弦膜圈说回采反冲力辐射原理

--读蒋秀夫专著《粒子波动论》

葛代序

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摘要：即使有人批评“讲的完全不得要领”、“干点靠谱的事情”，笔者也要把受到的思维训练讲出来：如果蒋秀夫先生粒子波动论的微观反冲力作用原理能够成立，且与霍金的宇宙辐射原理、郭光灿的超光速辐射原理是等价的，那么这三者结合，把蒋秀夫的反冲力作用原理称为蒋秀夫反冲力辐射原理（简称反冲力辐射），那么也许就能够用反冲力辐射弦膜圈

Full Text

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	说，回采超对称理论超伴粒子之谜、全息对称解信息丢失之谜、宇宙是自旋的极问之谜等开拓。[Academia Arena, 2010;2(8):61-78] (ISSN 1553-992X). **关键词：反冲力辐射 弦膜圈说 全息对称**		
8	**揭秘“水变烃”或“水变油”秘密** **水成金** **摘要：本文由作者将论坛文章投稿，揭秘“水变烃”或“水变油”秘密。**[Academia Arena, 2010;2(8):79-83] (ISSN 1553-992X). **关键词：水；烃；油；秘密**	Full Text	8