

ACS Biochemistry Final

pKa (chapter 3)

measure of the tendency of a group to give up a proton (acidity); tendency decreases tenfold as pKa increases by one unit

thioester bond (1)

compounds with functional group C-S-CoA-C (eg, in acetyl-CoA)

zwitterion (3)

dipolar ion with both positive and negative groups but overall neutral charge; can act as either an acid or base

Isoelectric point (pI) (chapter 3)

the characteristic pH at which the net electric charge is zero

SDS - Sodium Dodecyl Sulfate (chap 3)

detergent used to unfold proteins and give them uniform negative charge

SDS Page (3)

chromatography used to separate proteins based on mass. light proteins travel fast than heavier ones

PCR - Polymerase chain reaction (3)

copies DNA multiple times to increase sample size

Isoelectric focusing (chapt 3)

procedure used to determine the isoelectric pt (pI) of a protein. Protein migrates through gel until pH = pI (net charge = 0)

Two-Dimensional Electrophoresis (3)

combines isoelectric focusing and SDS electrophoresis; separates proteins by both molecular weight and pI

specific activity (3)

number of enzyme units per mg of total protein (a measure of enzyme purity)

activity (3)

total units of a certain enzyme in a solution

Peptide bonds (chapter 4)

C-N bond with double bond character due to resonance (C-N bond cannot rotate, and is planar)

Edman degradation (3)

used in the sequencing of polypeptides; labels and removes ONLY the amino-residue from a polypeptide. carried out in a machine called a sequenator

ϕ in peptide bonding (chapter 4)

angle around the α -carbon - amide nitrogen bond

ψ in peptide bonding (chapter 4)

angle around the α -carbon - carbonyl carbon bond

Ramachandran Plot (4)

shows favorable ϕ - ψ angle combinations. 3 main "wells" for α -helices, β -sheets, and left handed α -helices

Levinthal's Paradox (4)

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R Sanford



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ACS Organic Chemistry Sterling Test Prep, Frank Addivinola, 2023-01-02 ACS Organic Chemistry bestseller Practice questions and detailed explanations for topics tested on ACS Organic Chemistry examination Thousands of students use Sterling Test Prep to achieve high test scores

Organic Chemistry Education Research into Practice Jay Wackerly, Sarah Zingales, Michael Wentzel, Gautam Bhattacharyya, Brett McCollum, 2025-03-25 This Research Topic has three main goals 1 provide a platform for instructors of organic chemistry to showcase evidence based methods and educational theories they have utilized in their classrooms 2 build new and strengthen existing connections between educational researchers and practitioners and 3 highlight how people have used chemical education based research in their teaching practice There are places in the literature dedicated for chemical education research CER however there is not a clear avenue for those that have changed their teaching methods based on published CER and report their experiences Creating this article collection will foster collaboration between chemical education researchers and teachers of organic chemistry This opportunity allows these instructors to share evidence based practices experiences challenges and innovative approaches from CER literature and beyond This Research Topic bridges discipline based education research and the scholarship of teaching and learning which will help advance organic chemistry education and improve student outcomes

Subject Guide to Books in Print, 2001 **Research in Chemistry at Primarily Undergraduate Institutions**, 1993

Medical Books and Serials in Print, 1984 **Diversity, Equity, and Inclusion for Mathematics and Science**

Education: Cases and Perspectives Lin, Cheng-Yao, Sun, Li, 2025-06-04 Diversity equity and inclusion DEI are critical pillars for transforming mathematics and science education As classrooms diversify the need to address systemic barriers and create inclusive learning environments becomes more urgent Cases on DEI in STEM education highlight the real world challenges and strategies educators face in promoting equitable access to learning opportunities dismantling biases and empowering students from historically marginalized communities Further exploration may reveal powerful teaching tools and catalyze reflective practice and institutional change encouraging educators to critically examine their roles in shaping a more inclusive future in math and science Cases on Diversity Equity and Inclusion for Mathematics and Science Education explores key issues and concepts related to diversity equity and inclusion in mathematics and science classrooms It offers solutions and successful strategies for teaching and learning in mathematics and science This book covers topics such as inclusive classrooms K 12 education pre service teaching and is a useful resource for educators sociologists academicians researchers and scientists

Chemistry Karen Timberlake, 2003 Chemistry An Introduction to General Organic and Biological Chemistry now in its eighth edition makes chemistry exciting by showing why important concepts are relevant to the lives and future careers of readers The new design digital images photos Career Focus features and macro to micro art enhance the new edition while it retains the many features that have made this book so successful The writing as always is

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