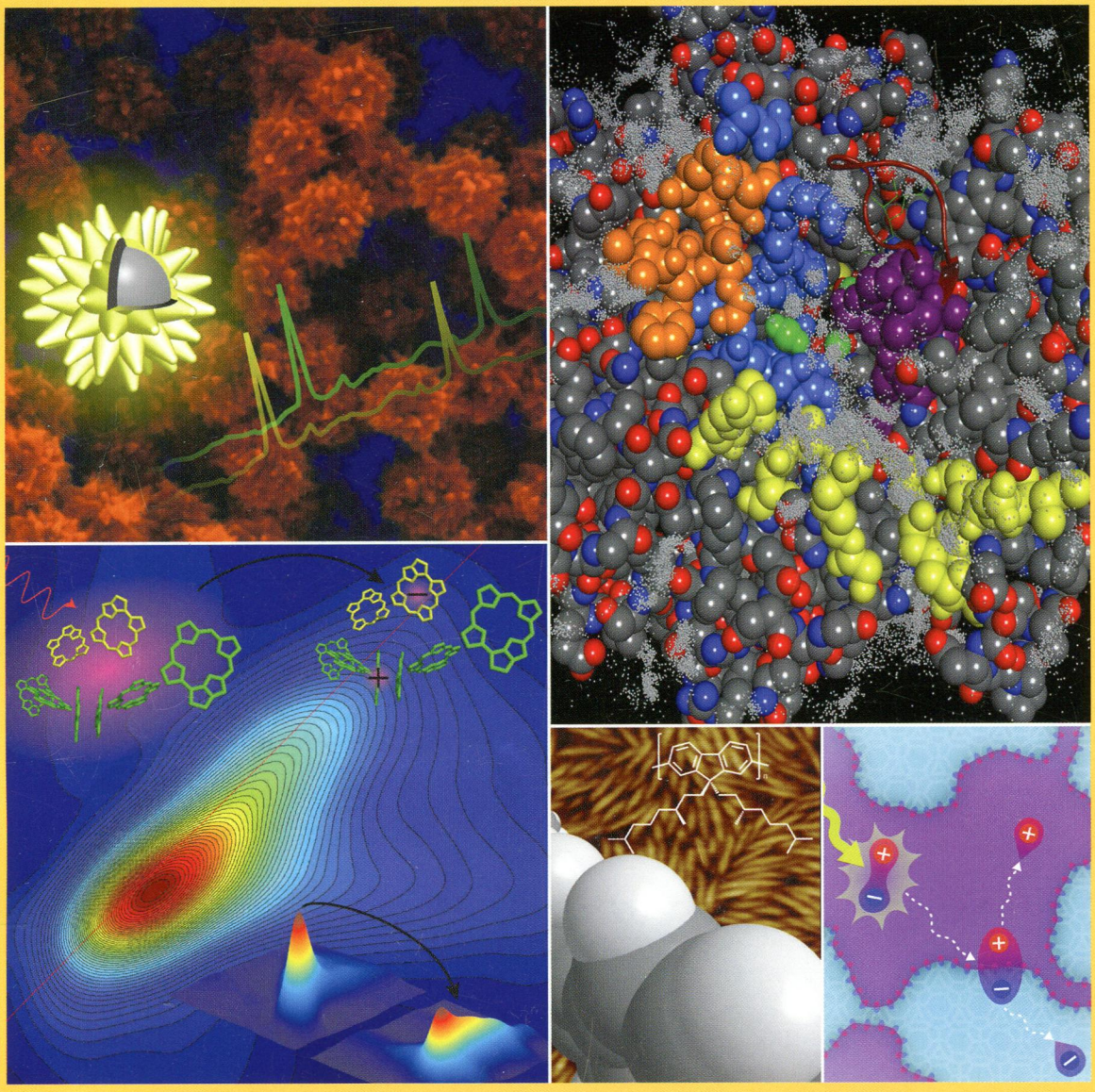
JPCBFK

NOVEMBER 7, 2013
VOLUME 117
NUMBER 44

pubs.acs.org/JPCB

THE JOURNAL OF PHYSICAL CHEMISTRY B



BIOPHYSICAL CHEMISTRY, BIOMATERIALS, LIQUIDS, AND SOFT MATTER

ACS Publications
MOST TRUSTED. MOST CITED. MOST READ.

www.acs.org

THE JOURNAL OF PHYSICAL CHEMISTRY B

November 7, 2013
Volume 117, Issue 44
Pages 13725-13946

Biophysical Chemistry and Biomolecules

Full Color Modulation of Firefly Luciferase through Engineering with Unified Stark Effect

Duanjun Cai, Miguel A. L. Marques, and Fernando Nogueira
pp 13725–13730
Publication Date (Web): October 2, 2013 (Article)
DOI: 10.1021/jp405665v
Section:
Enzymes

NBD-Labeled Cholesterol Analogues in Phospholipid Bilayers: Insights from Molecular Dynamics

João R. Robalo, J. P. Prates Ramalho, and Luís M. S. Loura
pp 13731–13742
Publication Date (Web): October 7, 2013 (Article)
DOI: 10.1021/jp406135a
Section:
General Biochemistry

Modulation of a Protein Free-Energy Landscape by Circular Permutation

Gaël Radou, Marta Enciso, Sergei Krivov, and Emanuele Paci
pp 13743–13747
Publication Date (Web): October 3, 2013 (Article)
DOI: 10.1021/jp406818t
ACS AuthorChoice
Section:
General Biochemistry

On the Nature of the Apparent Free Energy of Inserting Amino Acids into Membrane through the Translocon

Anna Rychkova and Arieh Warshel
pp 13748–13754
Publication Date (Web): October 2, 2013 (Article)
DOI: 10.1021/jp406925y
Section:
General Biochemistry

Differences in Proton-Coupled Electron-Transfer Reactions of Flavin Mononucleotide (FMN) and Flavin Adenine Dinucleotide (FAD) between Buffered and Unbuffered Aqueous Solutions

Serena L. J. Tan, Jia Min Kan, and Richard D. Webster
pp 13755–13766
Publication Date (Web): September 30, 2013 (Article)
DOI: 10.1021/jp4069619
Section:
Electrochemistry

Stopped-Flow Kinetic Studies of Poly(amidoamine) Dendrimer–Calf Thymus DNA To Form Dendriplexes

Debabrata Dey, Santosh Kumar, Souvik Maiti, and Dibakar Dhara
pp 13767–13774
Publication Date (Web): October 2, 2013 (Article)
DOI: 10.1021/jp406973t
Section:
Pharmaceuticals

How Conformational Flexibility Stabilizes the Hyperthermophilic Elongation Factor G-Domain

Maria Kalimeri, Obaidur Rahaman, Simone Melchionna, and Fabio Sterpone
pp 13775–13785
Publication Date (Web): October 2, 2013 (Article)
DOI: 10.1021/jp407078z
Section:
General Biochemistry

Single Tryptophan and Tyrosine Comparisons in the N-Terminal and C-Terminal Interface Regions of Transmembrane GWALP Peptides

Nicholas J. Gleason, Denise V. Greathouse, Christopher V. Grant, Stanley J. Opella, and Roger E. Koeppe, II
pp 13786–13794
Publication Date (Web): October 10, 2013 (Article)
DOI: 10.1021/jp407542e
Section:
General Biochemistry

An Investigation into the Effect of the Structure of Bile Salt Aggregates on the Binding Interactions and ESIHT Dynamics of Curcumin: A Photophysical Approach To Probe Bile Salt Aggregates as a Potential Drug Carrier

Sarthak Mandal, Surajit Ghosh, Debasis Banik, Chiranjib Banerjee, Jagannath Kuchlyan, and Nilmoni Sarkar
pp 13795–13807
Publication Date (Web): October 8, 2013 (Article)
DOI: 10.1021/jp407824t
Section:
Pharmaceuticals

On the Photophysics of Carotenoids: A Multireference DFT Study of Peridinin

Stefan Knecht, Christel M. Marian, Jacob Kongsted, and Benedetta Mennucci
pp 13808–13815
Publication Date (Web): October 3, 2013 (Article)
DOI: 10.1021/jp4078739
Section:
Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes

β-Amyloid Amorphous Aggregates Induced by the Small Natural Molecule Ferulic Acid

Emilia Bramanti, Lorenzo Fulgentini, Ranieri Bizzarri, Francesco Lenci, and Antonella Sgarbossa
pp 13816–13821
Publication Date (Web): October 18, 2013 (Article)
DOI: 10.1021/jp4079986
Section:
General Biochemistry

New Insights into Metal Interactions with the Prion Protein: EXAFS Analysis and Structure Calculations of Copper Binding to a Single Octarepeat from the Prion Protein

Alex McDonald, M. Jake Pushie, Glenn L. Millhauser, and Graham N. George
pp 13822–13841
Publication Date (Web): October 8, 2013 (Article)
DOI: 10.1021/jp408239h
Section:
General Biochemistry

The Conformational Landscape of an Intrinsically Disordered DNA-Binding Domain of a Transcription Regulator

Athi N. Naganathan and Modesto Orozco
pp 13842–13850
Publication Date (Web): October 15, 2013 (Article)
DOI: 10.1021/jp408350v
Section:
General Biochemistry

Cytochrome-P450–Cytochrome-b_5 *Interaction in a Membrane Environment Changes* ^{15}N *Chemical Shift Anisotropy Tensors*

Manoj Kumar Pandey, Subramanian Vivekanandan, Shivani Ahuja, Rui Huang, Sang-Choul Im, Lucy Waskell, and Ayyalusamy Ramamoorthy
pp 13851–13860
Publication Date (Web): October 9, 2013 (Article)
DOI: 10.1021/jp4086206
Section:
Enzymes

Concentration-Dependent Viscosity of Binary and Ternary Mixtures of Nonassociating Proteins: Measurement and Analysis

Asaf Grupi and Allen P. Minton
pp 13861–13865

Publication Date (Web): October 16, 2013 (Article)
DOI: 10.1021/jp406530r
Section:
Biochemical Methods

Energetics of Z-DNA Binding Protein-Mediated Helicity Reversals in DNA, RNA, and DNA–RNA Duplexes
Sangsu Bae, Yuyoung Kim, Doyoun Kim, Kyeong Kyu Kim, Yang-Gyun Kim, and Sungchul Hohng
pp 13866–13871
Publication Date (Web): October 10, 2013 (Article)
DOI: 10.1021/jp409862j
Section:
General Biochemistry

Biomaterials, Surfactants, and Membranes

The Role of Intact Oleosin for Stabilization and Function of Oleosomes
Sania Maurer, Gustav Waschatko, Denise Schach, Birgitta I. Zielbauer, Jakob Dahl, Tobias Weidner, Mischa Bonn, and Thomas A. Vilgis
pp 13872–13883
Publication Date (Web): October 2, 2013 (Article)
DOI: 10.1021/jp403893n
Section:
General Biochemistry

Halide Ions Effects on Surface Excess of Long Chain Ionic Liquids Water Solutions
Wenjie Wang, Woongmo Sung, Mingqi Ao, Nathaniel A. Anderson, David Vaknin, and Doseok Kim
pp 13884–13892
Publication Date (Web): October 7, 2013 (Article)
DOI: 10.1021/jp4047566
Section:
Surface Chemistry and Colloids

Liquids; Chemical and Dynamical Processes in Solution

Delayed Response of Interfacial Tension in Propagating Chemical Waves of the Belousov–Zhabotinsky Reaction without Stirring
Ryo Tanaka, Tomonori Nomoto, Taro Toyota, Hiroyuki Kitahata, and Masanori Fujinami
pp 13893–13898
Publication Date (Web): October 9, 2013 (Article)
DOI: 10.1021/jp4079458
Section:
Catalysis, Reaction Kinetics, and Inorganic Reaction Mechanisms

Anion Reduction Dominated Cathodic Limit of Metal-Free Ionic Liquid: Experimental and Theoretical Proofs
Nai-Chang Lo, Hsing-Yin Chen, Wan-Jung Chuang, Chi-Yu Lu, Ping-Yu Chen, and Po-Yu Chen
pp 13899–13905

Publication Date (Web): October 9, 2013 (Article)
DOI: 10.1021/jp408631p
Section:
Electrochemistry

Glasses, Colloids, Polymers, and Soft Matter

Dynamics of Dilute Solutions of Poly(aspartic acid) and Its Sodium Salt Elucidated from Atomistic Molecular Dynamics Simulations with Explicit Water

Sanoop Ramachandran, Anki Reddy Katha, Subramanya Mayya Kolake, Bokyung Jung, and Sungsoo Han
pp 13906–13913
Publication Date (Web): October 7, 2013 (Article)
DOI: 10.1021/jp406760v
Section:
Physical Properties of Synthetic High Polymers

Phase Transition Behavior of a Series of Even n*-Alkane* C_n/C_{n+2} *Mixtures Confined in Microcapsules: From Total Miscibility to Phase Separation Determined by Confinement Geometry and Repulsion Energy*

Xia Gao, Dongsheng Fu, Yunlan Su, Yong Zhou, and Dujin Wang
pp 13914–13921
Publication Date (Web): September 27, 2013 (Article)
DOI: 10.1021/jp406896n
Section:
Phase Equilibriums, Chemical Equilibriums, and Solutions

Ellipsoidal Janus Nanoparticles Adsorbed at the Water–Oil Interface: Some Evidence of Emergent Behavior

Xuan-Cuong Luu, Jing Yu, and Alberto Striolo
pp 13922–13929
Publication Date (Web): October 2, 2013 (Article)
DOI: 10.1021/jp407495z
Section:
Surface Chemistry and Colloids

Rheology of Protic Ionic Liquids and Their Mixtures

J. A. Smith, Grant B. Webber, Gregory G. Warr, and Rob Atkin
pp 13930–13935
Publication Date (Web): October 8, 2013 (Article)
DOI: 10.1021/jp407715e
Section:
Phase Equilibriums, Chemical Equilibriums, and Solutions

Photo-Orientation of Azobenzene-Containing Liquid-Crystalline Materials by Means of Domain Structure Rearrangement

Alexey V. Bogdanov and Andrey Kh. Vorobiev
pp 13936–13945
Publication Date (Web): September 23, 2013 (Article)

DOI: 10.1021/jp4080509
Section:
Physical Properties of Synthetic High Polymers

Additions and Corrections

Correction to "Double-Layer in Ionic Liquids: Paradigm Change?"

A. A. Kornyshev
pp 13946–13946
Publication Date (Web): October 24, 2013 (Addition/Correction)
DOI: 10.1021/jp410071c
Section:
Surface Chemistry and Colloids