

**سوابق تحصیلی:**

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### **دروس تدریس شده**

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- 5- (مباحث نوین در شیمی کلونید) دکتری-دانشگاه تربیت مدرس
- 6- ( ترمودینامیک کلاسیک) دکتری- دانشگاه تربیت مدرس

- 1- بررسی برهمکنش و پدیده هم‌افزایی در مخلوط فعال سطحی
- 2- بررسی پدیده نفوذ در سیستم‌های کلئیدی ، تعیین ساختار تجمعی حاصل و مطالعه انتقال فاز در این سیستمها
- 3- بررسی برهمکنش مخلوط مواد فعال سطحی با ماکرومولکولها نظیر پلیمر و پروتئین
- 4- بررسی برهمکنش رنگ با مواد فعال سطحی
- 5- بررسی کارایی سیستم‌های کلئیدی به عنوان بازدارنده خوردگی
- 6- بررسی توانایی سیستم‌های کلئیدی در پراکندگی نانولوله ها
- 7- شیمی محاسباتی

سوابق اجرائی

مدیر گروہ شیمی فیزیک - 1388-1

مقالات چاپ شده در مجلات خارجی

1

" A DFT study of the  $^{67}\text{Zn}$ ,  $^{14}\text{N}$  and  $^2\text{H}$  electric field gradient tensors in Zinc(II) -4-Melm complexes and extrapolation to superoxide dismutase ", Journal of Molecular Graphics and Modeling 2009,27,620

"Molecular interactions of cationic and anionic surfactants in mixed monolayers and aggregates ", Journal of physical chemistry B, 2009,

Electrolyte effect on mixed micelle and interfacial properties of binding mixtures of cationic and non ion surfactants", Journal of Colloid and interface science, 2008, 318,449.

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"Determination of the physico-chemical parameters and aggregation number of surfactant in micelles in binary alcohol-water mixtures", Journal of Molecular Liquids, 2008, 137,74.

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"A new model to study of phase transition from micro structure to nano structure in ionic/ionic surfactants mixture", Journal of physical chemistry B, 2007, 111,10069.

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"Further study on the micellization of a symmetric amphiphile using the Monte Carlo technique", Bulletin of the Chemical Society of Japan, 2006, 79,1355.

7

"Study of thermodynamic parameters in amphiphilic systems by lattice Monte Carlo: effect of tails

and heads", Theoretical Chemistry Accounts, 2006, 115, 1.

8

"A theoretical study of the dimerization of 1,2-dithia-4-cyclohexene (or 3,6-dihydro-1,2-dithiin), and its corresponding O, N and Se-substituted relatives", Journal of Molecular Structure: THEOCHEM, 2005, 723,37.

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"Investigation of interaction parameters in mixed micelle using pulsed field gradient NMR spectroscopy", Journal of Colloid and Interface Science, 2005, 285,381.

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"Study of the electronic and steric contributions to the free energy of ionic/nonionic mixed micellization", Colloids and Surfaces A, 2004, 244, 187.

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"Thermodynamic studies of mixed ionic/nonionic surfactant systems", Journal of Colloid and Interface Science, 2004, 276, 197.

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" Investigation of interaction of cationic surfactant with HSA in the presence of alcohols using PFG-NMR and potentiometric technique", Colloids and Surfaces A, 2004, 232, 77.

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"Semi-empirical quantum mechanical calculation of electronic distribution and NQR parameters of bromine atoms in some organic and inorganic compounds", Journal of Molecular Structure, 2000, 525, 129.

مقالات ارائه شده در کنفرانسهای داخلی و خارج از کشور

1

" Quantum chemical study on electrostatic interaction between lysine with a homologue set of n-alkyl sulfates", 7th Biennial Electrochemistry Seminar of Iran, 2007.

2

" Study of temperature effect on mixed micellization and interfacial properties of TritonX-100 and hexadecyltrimethylammonium bromide (CTAB) in absence and presence of sodium bromide using Conductometry", 7th Biennial Electrochemistry Seminar of Iran, 2007.

3

"Electrolyte effect on mixed micelle and interfacial properties of binding mixtures of cationic and

non ion surfactants", The 10 th Iranian Physical Chemistry Seminar, University of Isfahan, 2007.

4

"An Ab initio study of the binding of 3,4-methylenedioxymethamphetamine or MDMA (Ecstasy) to the active site of cytochrome P450", The 10 th Iranian Physical Chemistry Seminar, University of Isfahan, 2007.

5

"An Ab initio study on Tetracycline and its derivatives", The 10 th Iranian Physical Chemistry Seminar, University of Isfahan, 2007.

6

"Determination of the physico-chemical parameters and aggregation number of surfactant in micelles in binary alcohol-water mixtures using PFG-NMR and potentiometry techniques", Australian Colloid and Interface Symposium, Sydney, 2007, Australia.

7

"The phase diagram of mixed anionic/cationic surfactant system: transition from micro structure to nano structure", Australian Colloid and Interface Symposium, Sydney, 2007, Australia.

8

"A new approach to study of phase transition from micro structure to nano structure in ionic/ionic surfactants mixture", 9th Iranian Physical Chemistry Seminar, Guilan University, 2006.

9

"Study of the physico-chemical parameters and aggregation number of surfactant in micelles in binary alcohol-water mixtures using PFG-NMR and potentiometry techniques", 9th Iranian Physical Chemistry Seminar, Guilan University, 2006.

10

"An Ab initio study of 3,4-methylenedioxymethamphetamine or MDMA (Ecstasy) and its derivatives", 9th Iranian Physical Chemistry Seminar, Guilan University, 2006.

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"Ab initio Molecular Orbital Study of the Thermochemistry and 3,4-methylenedioxymethamphetamine(MDMA) Metabolite in Humans", 7th Iranian Biophysical Chemistry Conference, 2006.

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"Investigation of ionic and nonionic mixed micelle using pulsed field gradient NMR and potentiometric technique", 14th Iranian Conference of Chemistry and Chemical Engineering, Tehran-Tarbiat Moallem University-2004.

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"Investigation of interaction of cationic surfactant with HSA using potentiometric and PFG-NMR

spectroscopy technique", 39th IUPAC Congress and 86th Conference of the Canadian Society for Chemistry, Canada-2003.

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"Investigation of interaction parameters ionic and nonionic mixed surfactant using pulsed field gradient NMR and potentiometric technique", 2nd International Conference on Chemistry & its Applications, Qatar-2003.

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"Investigation of interaction of cationic surfactant with macromolecule using potentiometric and PFG-NMR spectroscopy technique", 5th Seminar of Physical Chemistry, Khalij Farsi University-2002 .

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"Ab initio study of structure and thermochemical properties of 3,6 -Dihydro-1,2,- dithiin and its dimer 1,2,7,8- Tetrathiacyclododeca -10,4-diene" , 9th Seminar of Organic Chemistry, Tehran-Imam Hussein University-2001.

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"Semi-empirical quantum mechanical calculations of  $^{35}\text{Cl}$  NQR frequencies in some compound", 13th Iranian Conference of Chemistry and Chemical Engineering, Tehran-Tarbiat Modares University-1998 .