

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Spin-component-scaled and dispersion-corrected second-order MÃ,ller–Plesset perturbation theory: a path toward chemical accuracy. Physical Chemistry Chemical Physics, 2022, 24, 3695-3712. | 2.8 | 13 |
| 2 | Non-Covalent Interactions Atlas benchmark data sets 5: London dispersion in an extended chemical space. Physical Chemistry Chemical Physics, 2022, 24, 14780-14793. | 2.8 | 26 |
| 3 | Non-covalent interactions atlas benchmark data sets 4: σ-hole interactions. Physical Chemistry Chemical Physics, 2022, 24, 14794-14804. | 2.8 | 27 |
| 4 | Conformational energies and equilibria of cyclic dinucleotides <i>in vacuo</i> and in solution: computational chemistry <i>vs.</i> NMR experiments. Physical Chemistry Chemical Physics, 2021, 23, 7280-7294. | 2.8 | 5 |
| 5 | Non-Covalent Interactions Atlas Benchmark Data Sets 3: Repulsive Contacts. Journal of Chemical Theory and Computation, 2021, 17, 1548-1561. | 5.3 | 42 |
| 6 | SQM/COSMO Scoring Function: Reliable Quantumâ€Mechanical Tool for Sampling and Ranking in Structureâ€Based Drug Design. ChemPlusChem, 2020, 85, 2361-2361. | 2.8 | 4 |
| 7 | Non-Covalent Interactions Atlas Benchmark Data Sets 2: Hydrogen Bonding in an Extended Chemical Space. Journal of Chemical Theory and Computation, 2020, 16, 6305-6316. | 5.3 | 47 |
| 8 | Benchmark Data Sets of Boron Cluster Dihydrogen Bonding for the Validation of Approximate Computational Methods. ChemPhysChem, 2020, 21, 2599-2604. | 2.1 | 4 |
| 9 | SQM/COSMO Scoring Function: Reliable Quantumâ€Mechanical Tool for Sampling and Ranking in Structureâ€Based Drug Design. ChemPlusChem, 2020, 85, 2362-2371. | 2.8 | 12 |
| 10 | Non-Covalent Interactions Atlas Benchmark Data Sets: Hydrogen Bonding. Journal of Chemical Theory and Computation, 2020, 16, 2355-2368. | 5.3 | 63 |
| 11 | DFTB+, a software package for efficient approximate density functional theory based atomistic simulations. Journal of Chemical Physics, 2020, 152, 124101. | 3.0 | 589 |
| 12 | Benchmarking of Semiempirical Quantum-Mechanical Methods on Systems Relevant to Computer-Aided Drug Design. Journal of Chemical Information and Modeling, 2020, 60, 1453-1460. | 5.4 | 45 |
| 13 | Impressive Enrichment of Semiempirical Quantum Mechanicsâ€Based Scoring Function: HSP90 Protein with 4541 Inhibitors and Decoys. ChemPhysChem, 2019, 20, 2721-2721. | 2.1 | 3 |
| 14 | Impressive Enrichment of Semiempirical Quantum Mechanicsâ€Based Scoring Function: HSP90 Protein with 4541 Inhibitors and Decoys. ChemPhysChem, 2019, 20, 2759-2766. | 2.1 | 11 |
| 15 | Description of halogen bonding in semiempirical quantumâ€mechanical and selfâ€consistent charge densityâ€functional tightâ€binding methods. Journal of Computational Chemistry, 2019, 40, 1633-1642. | 3.3 | 7 |
| 16 | Reparametrization of the COSMO Solvent Model for Semiempirical Methods PM6 and PM7. Journal of Chemical Information and Modeling, 2019, 59, 229-235. | 5.4 | 36 |
| 17 | Toward Accurate Conformational Energies of Smaller Peptides and Medium-Sized Macrocycles: MPCONF196 Benchmark Energy Data Set. Journal of Chemical Theory and Computation, 2018, 14, 1254-1266. | 5.3 | 69 |
| 18 | Testing Semiempirical Quantum Mechanical Methods on a Data Set of Interaction Energies Mapping Repulsive Contacts in Organic Molecules. Journal of Physical Chemistry A, 2018, 122, 2801-2808. | 2.5 | 22 |

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| 19 | Ranking Power of the SQM/COSMO Scoring Function on Carbonic Anhydraseâ€II–Inhibitor Complexes. ChemPhysChem, 2018, 19, 873-879. | 2.1 | 29 |
| 20 | Macrocycle Conformational Sampling by DFT-D3/COSMO-RS Methodology. Journal of Chemical Information and Modeling, 2018, 58, 48-60. | 5.4 | 19 |
| 21 | Gating the electron transfer at a monocopper centre through the supramolecular coordination of water molecules within a protein chamber mimic. Chemical Science, 2018, 9, 8282-8290. | 7.4 | 8 |
| 22 | Accurate Noncovalent Interactions via Dispersion-Corrected Second-Order MÃļler–Plesset Perturbation Theory. Journal of Chemical Theory and Computation, 2018, 14, 4711-4721. | 5.3 | 41 |
| 23 | SQM/COSMO Scoring Function at the DFTB3-D3H4 Level: Unique Identification of Native Protein–Ligand Poses. Journal of Chemical Information and Modeling, 2017, 57, 127-132. | 5.4 | 40 |
| 24 | Description of nonâ€covalent interactions in SCCâ€DFTB methods. Journal of Computational Chemistry, 2017, 38, 688-697. | 3.3 | 44 |
| 25 | Empirical D3 Dispersion as a Replacement for ab Initio Dispersion Terms in Density Functional Theory-Based Symmetry-Adapted Perturbation Theory. Journal of Chemical Theory and Computation, 2017, 13, 1638-1646. | 5.3 | 11 |
| 26 | B–Hâ< [–] ï€: a nonclassical hydrogen bond or dispersion contact?. Physical Chemistry Chemical Physics, 2017, 19, 18194-18200. | 2.8 | 32 |
| 27 | Pnictogen bonding in pyrazine•PnX5 (Pn = P, As, Sb and X = F, Cl, Br) complexes. Journal of Molecular Modeling, 2017, 23, 328. | 1.8 | 18 |
| 28 | Empirical Self-Consistent Correction for the Description of Hydrogen Bonds in DFTB3. Journal of Chemical Theory and Computation, 2017, 13, 4804-4817. | 5.3 | 50 |
| 29 | Accurate DFT-D3 Calculations in a Small Basis Set. Journal of Chemical Theory and Computation, 2017, 13, 3575-3585. | 5.3 | 70 |
| 30 | Superior Performance of the SQM/COSMO Scoring Functions in Native Pose Recognition of Diverse Protein–Ligand Complexes in Cognate Docking. ACS Omega, 2017, 2, 4022-4029. | 3.5 | 22 |
| 31 | Non-covalent interactions in anisole–(CO ₂) _n (n = 1, 2) complexes. Physical Chemistry Chemical Physics, 2017, 19, 22749-22758. | 2.8 | 3 |
| 32 | On the role of charge transfer in halogen bonding. Physical Chemistry Chemical Physics, 2017, 19, 791-803. | 2.8 | 85 |
| 33 | Introduction: Noncovalent Interactions. Chemical Reviews, 2016, 116, 4911-4912. | 47.7 | 116 |
| 34 | Competition between Halogen, Hydrogen and Dihydrogen Bonding in Brominated Carboranes. ChemPhysChem, 2016, 17, 3373-3376. | 2.1 | 40 |
| 35 | A Nexus between Theory and Experiment: Nonâ€Empirical Quantum Mechanical Computational Methodology Applied to Cucurbit[<i>n</i>]urilâ‹Guest Binding Interactions. Chemistry - A European Journal, 2016, 22, 17226-17238. | 3.3 | 29 |
| 36 | Cuby: An integrative framework for computational chemistry. Journal of Computational Chemistry, 2016, 37, 1230-1237. | 3.3 | 131 |

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| 37 | The SQM/COSMO filter: reliable native pose identification based on the quantum-mechanical description of protein–ligand interactions and implicit COSMO solvation. Chemical Communications, 2016, 52, 3312-3315. | 4.1 | 55 |
| 38 | Efficient Covalent Bond Formation in Gas-Phase Peptide–Peptide Ion Complexes with the Photoleucine Stapler. Journal of the American Society for Mass Spectrometry, 2016, 27, 633-645. | 2.8 | 18 |
| 39 | Benchmark Calculations of Interaction Energies in Noncovalent Complexes and Their Applications. Chemical Reviews, 2016, 116, 5038-5071. | 47.7 | 346 |
| 40 | New Insight into the Nature of Bonding in the Dimers of Lappert's Stannylene and Its Ge Analogs: A Quantum Mechanical Study. Journal of Chemical Theory and Computation, 2016, 12, 1696-1704. | 5.3 | 16 |
| 41 | Binding Energies of the π-Stacked Anisole Dimer: New Molecular Beam-Laser Spectroscopy Experiments and CCSD(T) Calculations. Chemistry - A European Journal, 2015, 21, 6637-6637. | 3.3 | 3 |
| 42 | QM/MM Calculations with deMon2k. Molecules, 2015, 20, 4780-4812. | 3.8 | 20 |
| 43 | Robust, Basis-Set Independent Method for the Evaluation of Charge-Transfer Energy in Noncovalent Complexes. Journal of Chemical Theory and Computation, 2015, 11, 528-537. | 5.3 | 48 |
| 44 | Binding Energies of the Ï€â€Stacked Anisole Dimer: New Molecular Beam—Laser Spectroscopy Experiments and CCSD(T) Calculations. Chemistry - A European Journal, 2015, 21, 6740-6746. | 3.3 | 18 |
| 45 | Representative Amino Acid Side-Chain Interactions in Protein–DNA Complexes: A Comparison of Highly Accurate Correlated <i>Ab Initio</i> Quantum Mechanical Calculations and Efficient Approaches for Applications to Large Systems. Journal of Chemical Theory and Computation, 2015, 11, 4086-4092. | 5.3 | 22 |
| 46 | Benchmark Calculations of Three-Body Intermolecular Interactions and the Performance of Low-Cost Electronic Structure Methods. Journal of Chemical Theory and Computation, 2015, 11, 3065-3079. | 5.3 | 87 |
| 47 | Extensions and applications of the A24 data set of accurate interaction energies. Physical Chemistry Chemical Physics, 2015, 17, 19268-19277. | 2.8 | 50 |
| 48 | Structure and energetics of the anisole–Ar _n (n = 1, 2, 3) complexes: high-resolution resonant two-photon and threshold ionization experiments, and quantum chemical calculations. Physical Chemistry Chemical Physics, 2015, 17, 12530-12537. | 2.8 | 8 |
| 49 | The Effect of Halogen-to-Hydrogen Bond Substitution on Human Aldose Reductase Inhibition. ACS Chemical Biology, 2015, 10, 1637-1642. | 3.4 | 45 |
| 50 | Malonate-based inhibitors of mammalian serine racemase: Kinetic characterization and structure-based computational study. European Journal of Medicinal Chemistry, 2015, 89, 189-197. | 5.5 | 49 |
| 51 | Parameterization of the DFTB3 Method for Br, Ca, Cl, F, I, K, and Na in Organic and Biological Systems. Journal of Chemical Theory and Computation, 2015, 11, 332-342. | 5.3 | 227 |
| 52 | Evaluation of composite schemes for CCSDT(Q) calculations of interaction energies of noncovalent complexes. Physical Chemistry Chemical Physics, 2014, 16, 19115-19121. | 2.8 | 15 |
| 53 | Ab Initio Quantum Mechanical Description of Noncovalent Interactions at Its Limits: Approaching the Experimental Dissociation Energy of the HF Dimer. Journal of Chemical Theory and Computation, 2014, 10, 3066-3073. | 5.3 | 39 |
| 54 | Convergence of the Interaction Energies in Noncovalent Complexes in the Coupled-Cluster Methods Up to Full Configuration Interaction. Journal of Chemical Theory and Computation, 2013, 9, 3420-3428. | 5.3 | 34 |

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| 55 | Accuracy of Quantum Chemical Methods for Large Noncovalent Complexes. Journal of Chemical Theory and Computation, 2013, 9, 3364-3374. | 5.3 | 275 |
| 56 | Competition between halogen, dihalogen and hydrogen bonds in bromo- and iodomethanol dimers. Journal of Molecular Modeling, 2013, 19, 2879-2883. | 1.8 | 18 |
| 57 | Quantum Mechanical Scoring: Structural and Energetic Insights into Cyclin-Dependent Kinase 2 Inhibition by Pyrazolo[1,5-a]pyrimidines. Current Computer-Aided Drug Design, 2013, 9, 118-129. | 1.2 | 5 |
| 58 | Parallel low-memory quasi-Newton optimization algorithm for molecular structure. Chemical Physics Letters, 2013, 584, 10-13. | 2.6 | 2 |
| 59 | Investigation of the Hydroxylation Mechanism of Noncoupled Copper Oxygenases by Ab Initio Molecular Dynamics Simulations. Chemistry - A European Journal, 2013, 19, 17328-17337. | 3.3 | 19 |
| 60 | Quantum Mechanics-Based Scoring Rationalizes the Irreversible Inactivation of Parasitic <i>Schistosoma mansoni</i> Cysteine Peptidase by Vinyl Sulfone Inhibitors. Journal of Physical Chemistry B, 2013, 117, 14973-14982. | 2.6 | 43 |
| 61 | QM/MM Calculations Reveal the Different Nature of the Interaction of Two Carborane-Based Sulfamide Inhibitors of Human Carbonic Anhydrase II. Journal of Physical Chemistry B, 2013, 117, 16096-16104. | 2.6 | 47 |
| 62 | CCSD[T] Describes Noncovalent Interactions Better than the CCSD(T), CCSD(TQ), and CCSDT Methods. Journal of Chemical Theory and Computation, 2013, 9, 364-369. | 5.3 | 68 |
| 63 | Modulation of Aldose Reductase Inhibition by Halogen Bond Tuning. ACS Chemical Biology, 2013, 8, 2484-2492. | 3.4 | 85 |
| 64 | Basis Set Dependence of Interaction Energies Computed Using Composite Post-MP2 Methods. Journal of Chemical Theory and Computation, 2013, 9, 330-337. | 5.3 | 12 |
| 65 | The Semiempirical Quantum Mechanical Scoring Function for In Silico Drug Design. ChemPlusChem, 2013, 78, 921-931. | 2.8 | 80 |
| 66 | MP2.5 and MP2.X: Approaching CCSD(T) Quality Description of Noncovalent Interaction at the Cost of a Single CCSD Iteration. ChemPhysChem, 2013, 14, 698-707. | 2.1 | 69 |
| 67 | Describing Noncovalent Interactions beyond the Common Approximations: How Accurate Is the "Gold Standard,―CCSD(T) at the Complete Basis Set Limit?. Journal of Chemical Theory and Computation, 2013, 9, 2151-2155. | 5.3 | 365 |
| 68 | On the performance of the semiempirical quantum mechanical PM6 and PM7 methods for noncovalent interactions. Chemical Physics Letters, 2013, 568-569, 161-166. | 2.6 | 115 |
| 69 | Halogen bond tunability II: the varying roles of electrostatic and dispersion contributions to attraction in halogen bonds. Journal of Molecular Modeling, 2013, 19, 4651-4659. | 1.8 | 190 |
| 70 | Quantum Mechanical Scoring: Structural and Energetic Insights into Cyclin-Dependent Kinase 2 Inhibition by Pyrazolo[1,5-a]pyrimidines. Current Computer-Aided Drug Design, 2013, 9, 118-129. | 1.2 | 52 |
| 71 | Advanced Corrections of Hydrogen Bonding and Dispersion for Semiempirical Quantum Mechanical Methods. Journal of Chemical Theory and Computation, 2012, 8, 141-151. | 5.3 | 429 |
| 72 | Assessment of the Performance of MP2 and MP2 Variants for the Treatment of Noncovalent Interactions. Journal of Physical Chemistry A, 2012, 116, 4159-4169. | 2.5 | 107 |

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| 73 | The performance of MP2.5 and MP2.X methods for nonequilibrium geometries of molecular complexes. Physical Chemistry Chemical Physics, 2012, 14, 13187. | 2.8 | 20 |
| 74 | New insights into the mechanism of electron transfer within flavohemoglobins: tunnelling pathways, packing density, thermodynamic and kinetic analyses. Physical Chemistry Chemical Physics, 2012, 14, 13872. | 2.8 | 19 |
| 75 | Benchmark Calculations of Noncovalent Interactions of Halogenated Molecules. Journal of Chemical Theory and Computation, 2012, 8, 4285-4292. | 5.3 | 264 |
| 76 | Robust and Efficient Constrained DFT Molecular Dynamics Approach for Biochemical Modeling. Journal of Chemical Theory and Computation, 2012, 8, 418-427. | 5.3 | 51 |
| 77 | Quantum effects in biological electron transfer. Physical Chemistry Chemical Physics, 2012, 14, 5902. | 2.8 | 31 |
| 78 | Evaluation of the performance of postâ€Hartreeâ€Fock methods in terms of intermolecular distance in noncovalent complexes. Journal of Computational Chemistry, 2012, 33, 691-694. | 3.3 | 15 |
| 79 | MP2.X: a generalized MP2.5 method that produces improved binding energies with smaller basis sets. Physical Chemistry Chemical Physics, 2011, 13, 21121. | 2.8 | 41 |
| 80 | Transmission Coefficients for Chemical Reactions with Multiple States: Role of Quantum Decoherence. Journal of the American Chemical Society, 2011, 133, 3883-3894. | 13.7 | 22 |
| 81 | Extrapolation and Scaling of the DFT-SAPT Interaction Energies toward the Basis Set Limit. Journal of Chemical Theory and Computation, 2011, 7, 685-689. | 5.3 | 67 |
| 82 | S66: A Well-balanced Database of Benchmark Interaction Energies Relevant to Biomolecular Structures. Journal of Chemical Theory and Computation, 2011, 7, 2427-2438. | 5.3 | 821 |
| 83 | Free-Energy Simulations of Hydrogen Bonding versus Stacking of Nucleobases on a Graphene Surface. Journal of Physical Chemistry C, 2011, 115, 19455-19462. | 3.1 | 24 |
| 84 | Extensions of the S66 Data Set: More Accurate Interaction Energies and Angular-Displaced Nonequilibrium Geometries. Journal of Chemical Theory and Computation, 2011, 7, 3466-3470. | 5.3 | 201 |
| 85 | On the reliability of the corrected semiempirical quantum chemical method (PM6-DH2) for assigning the protonation states in HIV-1 protease/inhibitor complexes. Collection of Czechoslovak Chemical Communications, 2011, 76, 457-479. | 1.0 | 7 |
| 86 | Semiempirical Quantum Mechanical Method PM6-DH2X Describes the Geometry and Energetics of CK2-Inhibitor Complexes Involving Halogen Bonds Well, While the Empirical Potential Fails. Journal of Physical Chemistry B, 2011, 115, 8581-8589. | 2.6 | 80 |
| 87 | Transferable scoring function based on semiempirical quantum mechanical PM6-DH2 method: CDK2 with 15 structurally diverse inhibitors. Journal of Computer-Aided Molecular Design, 2011, 25, 223-235. | 2.9 | 48 |
| 88 | Halogen bond tunability I: the effects of aromatic fluorine substitution on the strengths of halogen-bonding interactions involving chlorine, bromine, and iodine. Journal of Molecular Modeling, 2011, 17, 3309-3318. | 1.8 | 374 |
| 89 | A halogen-bonding correction for the semiempirical PM6 method. Chemical Physics Letters, 2011, 506, 286-289. | 2.6 | 114 |
| 90 | A Transferable H-Bonding Correction for Semiempirical Quantum-Chemical Methods. Journal of Chemical Theory and Computation, 2010, 6, 344-352. | 5.3 | 249 |

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| 91 | Stretched DNA Investigated Using Molecular-Dynamics and Quantum-Mechanical Calculations. Biophysical Journal, 2010, 98, 101-110. | 0.5 | 19 |
| 92 | Surface residues dynamically organize water bridges to enhance electron transfer between proteins. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11799-11804. | 7.1 | 50 |
| 93 | Multilevel Fragment-Based Approach (MFBA): A Novel Hybrid Computational Method for the Study of Large Molecules. Journal of Chemical Theory and Computation, 2010, 6, 91-99. | 5.3 | 58 |
| 94 | A Reliable Docking/Scoring Scheme Based on the Semiempirical Quantum Mechanical PM6-DH2 Method Accurately Covering Dispersion and H-Bonding: HIV-1 Protease with 22 Ligands. Journal of Physical Chemistry B, 2010, 114, 12666-12678. | 2.6 | 116 |
| 95 | Spin-component scaled coupled-clusters singles and doubles optimized towards calculation of noncovalent interactions. Physical Chemistry Chemical Physics, 2010, 12, 9611. | 2.8 | 63 |
| 96 | Comparative Study of Selected Wave Function and Density Functional Methods for Noncovalent Interaction Energy Calculations Using the Extended S22 Data Set. Journal of Chemical Theory and Computation, 2010, 6, 2365-2376. | 5.3 | 227 |
| 97 | Semiempirical Quantum Chemical PM6 Method Augmented by Dispersion and H-Bonding Correction Terms Reliably Describes Various Types of Noncovalent Complexes. Journal of Chemical Theory and Computation, 2009, 5, 1749-1760. | 5.3 | 312 |
| 98 | Design of HIV Protease Inhibitors Based on Inorganic Polyhedral Metallacarboranes. Journal of Medicinal Chemistry, 2009, 52, 7132-7141. | 6.4 | 132 |
| 99 | Potentialâ€Energy and Freeâ€Energy Surfaces of Glycylâ€Phenylalanylâ€Alanine (GFA) Tripeptide: Experiment and Theory. Chemistry - A European Journal, 2008, 14, 4886-4898. | 3.3 | 47 |
| 100 | Benchmark database on isolated small peptides containing an aromatic side chain: comparison between wave function and density functional theory methods and empirical force field. Physical Chemistry Chemical Physics, 2008, 10, 2747. | 2.8 | 146 |
| 101 | Interpretation of Protein/Ligand Crystal Structure using QM/MM Calculations: Case of HIV-1 Protease/Metallacarborane Complex. Journal of Physical Chemistry B, 2008, 112, 15094-15102. | 2.6 | 52 |
| 102 | Benzene Dimer: High-Level Wave Function and Density Functional Theory Calculations. Journal of Chemical Theory and Computation, 2008, 4, 1829-1834. | 5.3 | 232 |
| 103 | Adsorption of Aromatic Hydrocarbons and Ozone at Environmental Aqueous Surfaces. Journal of Physical Chemistry A, 2008, 112, 4942-4950. | 2.5 | 38 |
| 104 | Benzene Dimer: Dynamic Structure and Thermodynamics Derived from On-the-Fly ab initio DFT-D Molecular Dynamic Simulations. Journal of Chemical Theory and Computation, 2008, 4, 1835-1840. | 5.3 | 39 |
| 105 | Quantum Chemical Benchmark Energy and Geometry Database for Molecular Clusters and Complex Molecular Systems (www.begdb.com): A Users Manual and Examples. Collection of Czechoslovak Chemical Communications, 2008, 73, 1261-1270. | 1.0 | 144 |
| 106 | Correlation Between the Thermodynamic Stability of DNA Duplexes and the Interaction and Solvation Energies of DNA Building Blocks. Collection of Czechoslovak Chemical Communications, 2008, 73, 161-174. | 1.0 | 1 |
| 107 | The Stabilization Energy of the GLU-LYS Salt Bridge in the Protein/Water Environment: Correlated Quantum Chemical ab initio, DFT and Empirical Potential Studies. Collection of Czechoslovak Chemical Communications, 2008, 73, 921-936. | 1.0 | 2 |
| 108 | Density-Functional, Density-Functional Tight-Binding, and Wave Function Calculations on Biomolecular Systemsâ€. Journal of Physical Chemistry A, 2007, 111, 5642-5647. | 2.5 | 27 |

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| 109 | On the Nature of DNA-Duplex Stability. Chemistry - A European Journal, 2007, 13, 2983-2989. | 3.3 | 28 | |