

Abil E Aliev

List of Publications by Year in descending order

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104
papers

2,794
citations

172457

29
h-index

233421

45
g-index

110
all docs

110
docs citations

110
times ranked

3571
citing authors

#	ARTICLE	IF	CITATIONS
1	Motional timescale predictions by molecular dynamics simulations: Case study using proline and hydroxyproline sidechain dynamics. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 195-215.	2.6	202
2	Influence of solvent selection and extraction temperature on yield and composition of lipids extracted from spent coffee grounds. <i>Industrial Crops and Products</i> , 2018, 119, 49-56.	5.2	102
3	Quadruply Hydrogen Bonded Cytosine Modules for Supramolecular Applications. <i>Journal of the American Chemical Society</i> , 2006, 128, 6544-6545.	13.7	93
4	Enantioselective Formal Total Synthesis of the Antitumor Macrolide Bryostatin 7. <i>Organic Letters</i> , 2006, 8, 4477-4480.	4.6	84
5	An NMR Method for the Quantitative Assessment of Intramolecular Hydrogen Bonding; Application to Physicochemical, Environmental, and Biochemical Properties. <i>Journal of Organic Chemistry</i> , 2014, 79, 11075-11083.	3.2	83
6	One-Step Synthesis, Structure, and Band Gap Properties of SnO ₂ Nanoparticles Made by a Low Temperature Nonaqueous Sol-Gel Technique. <i>ACS Omega</i> , 2018, 3, 13227-13238.	3.5	83
7	Scaling factors for carbon NMR chemical shifts obtained from DFT B3LYP calculations. <i>Computational and Theoretical Chemistry</i> , 2009, 893, 1-5.	1.5	82
8	Solid-state NMR studies of collagen-based parchments and gelatin. <i>Biopolymers</i> , 2005, 77, 230-245.	2.4	81
9	Porous silica and polysilsesquioxane with covalently linked phosphonates and phosphonic acids. <i>Journal of Materials Chemistry</i> , 2000, 10, 2758-2764.	6.7	65
10	High Nuclearity ZnII/MeCO ₂ ⁻ /(C ₅ NH ₄) ₂ CO ₂ ²⁻ Clusters by Depolymerization: Conversion of a Three-Dimensional Coordination Polymer Containing Hexameric Units into Its Constituent Hexanuclear Complex. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3211-3214.	13.8	61
11	Noncovalent Functional Group-Arene Interactions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7823-7826.	13.8	61
12	Conformational properties of monosubstituted cyclohexanes in their thiourea inclusion compounds and in solution: variable-temperature one-dimensional and two-dimensional carbon-13 NMR investigations. <i>Journal of the American Chemical Society</i> , 1993, 115, 6369-6377.	13.7	59
13	Conformational Analysis of Prolines in Water. <i>Journal of Physical Chemistry B</i> , 2007, 111, 14034-14042.	2.6	49
14	Simple technique for temperature calibration of a MAS probe for solid-state NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 1994, 32, 366-369.	1.9	48
15	Noncovalent Interactions of I ⁻ Systems with Sulfur: The Atomic Chameleon of Molecular Recognition. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1193-1198.	13.8	48
16	Photodetachment Spectra of Deprotonated Fluorescent Protein Chromophore Anions. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7943-7949.	2.5	45
17	Experimental Verification of Force Fields for Molecular Dynamics Simulations Using Gly-Pro-Gly-Gly. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12358-12375.	2.6	42
18	Ignition control of homogeneous-charge compression ignition (HCCI) combustion through adaptation of the fuel molecular structure by reaction with ozone. <i>Fuel</i> , 2010, 89, 3178-3184.	6.4	37

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19	O-Directed Free-Radical Hydrostannations of Propargyl Ethers, Acetals, and Alcohols with Ph ₃ SnH and Et ₃ B. <i>Organic Letters</i> , 2005, 7, 5369-5372.	4.6	36
20	Dynamic properties of dioctanoyl peroxide guest molecules constrained within the urea tunnel structure: A combined incoherent quasielastic neutron scattering and solid state ² H nuclear magnetic resonance investigation. <i>Journal of Chemical Physics</i> , 1998, 109, 4078-4089.	3.0	33
21	Sulfur-Directed Olefin Oxidations: Observation of Divergent Reaction Mechanisms in the Palladium-Mediated Acetoxylation of Unsaturated Thioacetals. <i>Organometallics</i> , 2011, 30, 1772-1775.	2.3	33
22	High-Resolution Solid-State ² H NMR Spectroscopy of Polymorphs of Glycine. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12201-12211.	2.5	32
23	Luminescent and Swellable Conjugated Microporous Polymers for Detecting Nitroaromatic Explosives and Removing Harmful Organic Vapors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48352-48362.	8.0	31
24	Synthesis of the Tagetitoxin Core via Photo-Stevens Rearrangement. <i>Organic Letters</i> , 2008, 10, 5477-5480.	4.6	30
25	Quantum Mechanical and NMR Studies of Ring Puckering and <i>cis</i> / <i>trans</i> -Rotameric Interconversion in Prolines and Hydroxyprolines. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10858-10865.	2.5	30
26	Surfing Ć€...Clouds for Noncovalent Interactions: Arenes versus Alkenes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 551-555.	13.8	30
27	Is there an intramolecular hydrogen bond in 2-halophenols? A theoretical and spectroscopic investigation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25151-25159.	2.8	30
28	Evaluation of the taste-masking effects of (2-hydroxypropyl)-Ĥ ² -cyclodextrin on ranitidine hydrochloride; a combined biosensor, spectroscopic and molecular modelling assessment. <i>RSC Advances</i> , 2018, 8, 3564-3573.	3.6	30
29	Formation of an ion-free crystalline carbon nitride and its reversible intercalation with ionic species and molecular water. <i>Chemical Science</i> , 2019, 10, 2519-2528.	7.4	30
30	Structural and dynamic properties of the 1,10-dibromodecane/urea inclusion compound, investigated by variable-temperature powder X-ray diffraction, solid-state ² H NMR lineshape analysis and solid-state ² H NMR spin Ć€ lattice relaxation time measurements. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 2179-2185.	1.7	29
31	A concise approach to the epidithiodiketopiperazine (ETP) core. <i>Tetrahedron Letters</i> , 2006, 47, 2387-2390.	1.4	27
32	Temperature-Dependent Structural Properties of p-Diiodobenzene: Neutron Diffraction and High-Resolution Solid State ¹³ C NMR Investigations. <i>Journal of Solid State Chemistry</i> , 1994, 110, 20-27.	2.9	26
33	Cytosine modules in quadruple hydrogen bonded arrays. <i>New Journal of Chemistry</i> , 2010, 34, 2634.	2.8	26
34	Urinary nuclear magnetic resonance spectroscopy of a Bangladeshi cohort with hepatitis-B hepatocellular carcinoma: A biomarker corroboration study. <i>World Journal of Gastroenterology</i> , 2016, 22, 4191.	3.3	26
35	Some Recent Advances in the Design and Use of Molecular Balances for the Experimental Quantification of Intramolecular Noncovalent Interactions of Ć€ Systems. <i>Chemistry - A European Journal</i> , 2019, 25, 10516-10530.	3.3	26
36	Dynamics of the Hydrogen-Bonding Arrangement in Solid Triphenylmethanol: Ć€ An Investigation by Solid-State ² H NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1998, 102, 2165-2175.	2.6	25

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37	Probing weak non-covalent interactions in solution and solid states with designed molecules. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 97-100.	2.8	25
38	Noncovalent Interactions of π -Systems with Sulfur: The Atomic Chameleon of Molecular Recognition. <i>Angewandte Chemie</i> , 2018, 130, 1207-1212.	2.0	25
39	$^{37}\text{Cl}/^{35}\text{Cl}$ isotope effects in ^{13}C NMR spectroscopy of chlorohydrocarbons. <i>Magnetic Resonance in Chemistry</i> , 1993, 31, 54-57.	1.9	24
40	^2H NMR lineshape analysis using automated fitting procedures based on local and quasi-global optimization techniques. <i>Magnetic Resonance in Chemistry</i> , 1998, 36, 855-868.	1.9	24
41	Highly stable cyclic dimers based on non-covalent interactions. <i>Chemical Communications</i> , 2006, , 2173.	4.1	24
42	Ureidopyrimidinones Incorporating a Functionalizable p-Aminophenyl Electron-Donating Group at C-6. <i>Journal of Organic Chemistry</i> , 2005, 70, 2701-2707.	3.2	23
43	An investigation into the electrophilic cyclisation of N-acyl-pyrrolidinium ions: a facile synthesis of pyrrolo-tetrahydroisoquinolones and pyrrolo-benzazepinones. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3561.	2.8	23
44	Solid-State ^2H and ^{13}C NMR Studies of Hydrogen-Bond Dynamics in Ferrocene-1,1'-Diylbis(Diphenylmethanol). <i>The Journal of Physical Chemistry</i> , 1995, 99, 12008-12015.	2.9	22
45	Structural and Dynamic Aspects of Hydrogen-Bonded Complexes and Inclusion Compounds Containing π -Dicyanoalkanes and Urea, Investigated by Solid-State ^{13}C and ^2H NMR Techniques. <i>Journal of Physical Chemistry B</i> , 2005, 109, 23342-23350.	2.6	22
46	Noncovalent Lone Pair $\cdots\pi$ (No $\cdots\pi$) $\cdots\text{H}$ Heteroarene Interactions: The Janus \cdots Faced Hydroxy Group. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8169-8174.	13.8	22
47	Dynamics of the Benzene Moiety in Crystalline Benzenetricarbonylchromium: Potential and Limitations of ^2H NMR Line-Shape Analysis and ^2H NMR Spin-Lattice Relaxation Time Measurements. <i>The Journal of Physical Chemistry</i> , 1995, 99, 1156-1165.	2.9	21
48	Dynamic Properties of Cyclohexane Guest Molecules Constrained within the Zeolite H-ZSM-5 Host Structure: A Wide-Line Solid State ^2H NMR Investigation. <i>Journal of Physical Chemistry A</i> , 1997, 101, 4541-4547.	2.5	20
49	Unravelling the Disordered Hydrogen Bonding Arrangement in Solid Triphenylmethanol. <i>Journal of Physical Chemistry B</i> , 1999, 103, 6215-6223.	2.6	20
50	Synthesis and coordinating ability of chitosan dithiocarbamate and analogs towards Cu(II) ions. <i>Journal of Physical Organic Chemistry</i> , 2002, 15, 852-857.	1.9	19
51	The use of XPS spectra for the study of reaction mechanisms: the atom inventory method. <i>Journal of Physical Organic Chemistry</i> , 2008, 21, 1035-1042.	1.9	19
52	Membrane Receptor Probes: Solid-Phase Synthesis of Biotin-Asp-PEG-arvanil Derivatives. <i>Organic Letters</i> , 2005, 7, 1699-1702.	4.6	18
53	Concise synthesis of bicyclic amins and their evaluation as precursors to the sarain core. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 2941.	2.8	18
54	Reactivity of the Thermally Stable Intermediates of the Reduction of SO_2 on Carbons and Mechanisms of Insertion of Organic Moieties in the Carbon Matrix. <i>Journal of Physical Chemistry C</i> , 2008, 112, 581-589.	3.1	18

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55	A facile synthesis of pyrrolo-(di)-benzazocinones via an intramolecular N-acyliminium ion cyclisation. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 167-177.	2.8	18
56	Dynamic properties of the urea molecules in 1:1-dibromoalkane/urea inclusion compounds investigated by 2H NMR spectroscopy. <i>Journal of Materials Chemistry</i> , 1994, 4, 35-39.	6.7	17
57	Natural abundance high-resolution solid state 2H NMR spectroscopy. <i>Chemical Physics Letters</i> , 1994, 226, 193-198.	2.6	16
58	Microfibrillar Solid Dispersions of Poorly Water-Soluble Drugs Produced via Centrifugal Spinning: Unexpected Dissolution Behavior on Recrystallization. <i>Molecular Pharmaceutics</i> , 2017, 14, 1666-1680.	4.6	15
59	Aspects of the characterization of cloverite by solid-state n.m.r. techniques. <i>Zeolites</i> , 1993, 13, 607-610.	0.5	14
60	Faraday communications. Carbon-13 halogen second-order quadrupolar and indirect spin-spin coupling effects in high-resolution solid-state 13C NMR spectra of halobenzenes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 3729-3730.	1.7	14
61	Binding Site Optimisation for Artificial Enzymes by Diffusion NMR of Small Molecules. <i>Chemistry - A European Journal</i> , 2003, 9, 1714-1723.	3.3	14
62	The Triflic Acid-Mediated Cyclization Reactions of N-Cinnamoyl-1-Naphthylamines. <i>Journal of Organic Chemistry</i> , 2013, 78, 10938-10946.	3.2	14
63	Noncovalent Lone Pair... (No!) Heteroarene Interactions: The Janus-Faced Hydroxy Group. <i>Angewandte Chemie</i> , 2015, 127, 8287-8292.	2.0	14
64	Synthesis, characterisation and natural abundance 187Os NMR spectroscopy of hydride bridged triosmium clusters with chiral diphosphine ligands. <i>Inorganica Chimica Acta</i> , 2006, 359, 926-937.	2.4	13
65	Natural-Abundance Solid-State 2H NMR Spectroscopy at High Magnetic Field. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5568-5578.	2.5	13
66	Water scaffolding in collagen: Implications on protein dynamics as revealed by solid-state NMR. <i>Biopolymers</i> , 2014, 101, 246-256.	2.4	13
67	Intramolecular Acylal Cyclisation (IAC) as an Efficient Synthetic Strategy towards the Total Synthesis of Erythrina Alkaloid Derivatives. <i>Chemistry - A European Journal</i> , 2015, 21, 13909-13912.	3.3	13
68	Metagenomic ene-reductases for the bioreduction of sterically challenging enones. <i>RSC Advances</i> , 2019, 9, 36608-36614.	3.6	13
69	Prebiotic Catalytic Peptide Ligation Yields Proteinogenic Peptides by Intramolecular Amide Catalyzed Hydrolysis Facilitating Regioselective Lysine Ligation in Neutral Water. <i>Journal of the American Chemical Society</i> , 2022, 144, 10151-10155.	13.7	13
70	Dynamic properties of p-diiodobenzene investigated by solid-state 2H and 13C nuclear magnetic resonance spectroscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 3797-3800.	1.7	12
71	A combined NMR/MD/QM approach for structure and dynamics elucidations in the solution state: pilot studies using tetrapeptides. <i>Chemical Communications</i> , 2010, 46, 695-697.	4.1	12
72	A novel synthesis of (di)-benzazocinones via an endocyclic N-acyliminium ion cyclisation. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1547.	2.8	12

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73	Pharaoh's Serpents: New Insights into a Classic Carbon Nitride Material. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 1572-1580.	1.2	12
74	In Situ Monitoring of Solid-State Polymerization Reactions in Sodium Chloroacetate and Sodium Bromoacetate by ²³ Na and ¹³ C Solid-State NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2000, 6, 1120-1126.	3.3	12
75	Probing chemical transformations in organic solids via NMR techniques: The solid-state photodimerization reaction of 7-methoxy-4-methylcoumarin. <i>Structural Chemistry</i> , 1994, 5, 327-333.	2.0	11
76	A Simple Protocol for the Modular Assembly of Millipede Artificial Enzymes. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1225-1228.	13.8	11
77	Synthesis of substituted benzoxaborinin-1-ols via palladium-catalysed cyclisation of alkenyl- and alkynyl-boronic acids. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8039-8043.	2.8	11
78	Quadruple hydrogen bonded cytosine modules: N-1 functionalised arrays. <i>New Journal of Chemistry</i> , 2011, 35, 1522.	2.8	10
79	Diastereomer Configurations from Joint Experimental-Computational Analysis. <i>Journal of Organic Chemistry</i> , 2012, 77, 6290-6295.	3.2	10
80	A lactate-derived chiral aldehyde for determining the enantiopurity of enantioenriched primary amines. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 9050-9054.	2.8	10
81	The structure of tagetitoxin. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 238-245.	2.8	10
82	Characterising plasticised cellulose acetate-based historic artefacts by NMR spectroscopy: A new approach for quantifying the degree of substitution and diethyl phthalate contents. <i>Polymer Degradation and Stability</i> , 2021, 183, 109420.	5.8	10
83	Molecular dynamics of cyclohexane guest molecules in the cyclohexane/thiourea inclusion compound: an incoherent quasielastic neutron scattering investigation. <i>Molecular Physics</i> , 1998, 93, 545-554.	1.7	10
84	Solid State Dynamic Properties of Tetrakis(trimethylsilyl)methane: High-Resolution Solid State ¹³ C and ²⁹ Si NMR Investigations. <i>Journal of Solid State Chemistry</i> , 1994, 110, 314-320.	2.9	9
85	Rotary resonance recoupling of ¹³ C- ¹ H dipolar interactions in magic angle spinning ¹³ C NMR of dynamic solids. <i>Chemical Physics Letters</i> , 2000, 323, 490-497.	2.6	9
86	Structures in Solutions from Joint Experimental-Computational Analysis: Applications to Cyclic Molecules and Studies of Noncovalent Interactions. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1093-1109.	2.5	9
87	Backbone dynamics in collagen. <i>Chemical Physics Letters</i> , 2004, 398, 522-525.	2.6	8
88	Reactivity of the intermediates of the reduction of SO ₂ . Functionalization of graphite, graphite oxide and graphene oxide. <i>Journal of Physical Organic Chemistry</i> , 2014, 27, 344-351.	1.9	8
89	Structural and Dynamic Properties of Gallium Alkoxides. <i>Inorganic Chemistry</i> , 2019, 58, 10346-10356.	4.0	8
90	Monocyclic Quinone Structure-Activity Patterns: Synthesis of Catalytic Inhibitors of Topoisomerase II with Potent Antiproliferative Activity. <i>ChemMedChem</i> , 2020, 15, 114-124.	3.2	8

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91	Understanding spontaneous dissolution of crystalline layered carbon nitride for tuneable photoluminescent solutions and glasses. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2175-2183.	10.3	8
92	Title is missing!. <i>Catalysis Letters</i> , 2003, 86, 279-283.	2.6	7
93	Synthesis of novel and potent vorapaxar analogues. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 3264-3274.	2.8	6
94	Dihalohydration of Alkynols: A Versatile Approach to Diverse Halogenated Molecules. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4018-4028.	2.4	6
95	Hydrogen Bond Dynamics in Solid Triphenylsilanol. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9013-9018.	2.6	5
96	Strategies for synthesis of epoxy resins from oleic acid derived from food wastes. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3159-3170.	2.3	5
97	Tuning Reactivity in Pd-catalysed C(sp ³)-H Arylations via Directing Group Modifications and Solvent Selection. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 5105-5115.	4.3	5
98	Concise NMR Approach for Molecular Dynamics Characterizations in Organic Solids. <i>Journal of Physical Chemistry A</i> , 2013, 117, 7855-7862.	2.5	4
99	Supramolecular catalysis induced by polysaccharides. Homogeneous hydrolysis of p-nitrobenzyl amylose xanthate. <i>Journal of Physical Organic Chemistry</i> , 2003, 16, 513-518.	1.9	3
100	Cyclisation reactions of N-cinnamoyl-9-aminoanthracenes. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 3211-3221.	2.8	3
101	Tin chemical shift anisotropy in tin dioxide: On ambiguity of CSA asymmetry derived from MAS spectra. <i>Solid State Nuclear Magnetic Resonance</i> , 2018, 89, 1-10.	2.3	3
102	Intramolecular Amino-thiolysis Cyclization of Graphene Oxide Modified with Sulfur Dioxide: XPS and Solid-State NMR Studies. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1729-1741.	3.1	3
103	Density functional and spectroscopic studies of nitrogen inversion in substituted dizocilpines. <i>Journal of Physical Organic Chemistry</i> , 2009, 22, 607-612.	1.9	1
104	Frontispiece: Some Recent Advances in the Design and Use of Molecular Balances for the Experimental Quantification of Intramolecular Noncovalent Interactions of π -Systems. <i>Chemistry - A European Journal</i> , 2019, 25, .	3.3	0