

# Istvan Szabo

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

1,251  
citations

304701

22  
h-index

454934

30  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1299  
citing authors

#	ARTICLE	IF	CITATIONS
1	Revealing a double-inversion mechanism for the $F\hat{a}^{\sim} + CH_3Cl$ $S_N2$ reaction. Nature Communications, 2015, 6, 5972.	12.8	134
2	Influence of the leaving group on the dynamics of a gas-phase $S_N2$ reaction. Nature Chemistry, 2016, 8, 151-156.	13.6	116
3	Room-Temperature Optical Picocavities below $1\text{ nm}^3$ Accessing Single-Atom Geometries. Journal of Physical Chemistry Letters, 2018, 9, 7146-7151.	4.6	88
4	Dynamics of the $F\hat{a}^{\sim} + CH_3Cl \hat{a}^{\sim} Cl\hat{a}^{\sim} + CH_3F$ $S_N2$ reaction on a chemically accurate potential energy surface. Chemical Science, 2013, 4, 4362.	7.4	70
5	Mode-Specific $S_{N2}$ Reaction Dynamics. Journal of Physical Chemistry Letters, 2016, 7, 3322-3327.	4.6	63
6	Dynamics and Novel Mechanisms of $S_{N2}$ Reactions on ab Initio Analytical Potential Energy Surfaces. Journal of Physical Chemistry A, 2017, 121, 9005-9019.	2.5	55
7	High-level ab initio potential energy surface and dynamics of the $F\hat{a}^{\sim} + CH_3I$ $S_{N2}$ and proton-transfer reactions. Chemical Science, 2017, 8, 3164-3170.	7.4	53
8	Molecular simulations unravel the molecular principles that mediate selective permeability of carboxysome shell protein. Scientific Reports, 2020, 10, 17501.	3.3	52
9	Double-Inversion Mechanisms of the $X\hat{a}^{\sim} + CH_3Y$ [ $X, Y = F, Cl, Br, I$ ] $S_{N2}$ Reactions. Journal of Physical Chemistry A, 2015, 119, 3134-3140.	2.5	49
10	Deciphering Front-Side Complex Formation in $S_{N2}$ Reactions via Dynamics Mapping. Journal of Physical Chemistry Letters, 2017, 8, 2917-2923.	4.6	49
11	Controlling the structure and photophysics of fluorophore dimers using multiple cucurbit[8]uril clampings. Chemical Science, 2020, 11, 812-825.	7.4	48
12	EXPERIMENTAL ENERGY LEVELS AND PARTITION FUNCTION OF THE $^{12}C_2$ MOLECULE. Astrophysical Journal, Supplement Series, 2016, 224, 44.	7.7	45
13	Modular supramolecular dimerization of optically tunable extended aryl viologens. Chemical Science, 2019, 10, 8806-8811.	7.4	43
14	Host-Guest Chemistry Meets Electrocatalysis: Cucurbit[6]uril on a Au Surface as a Hybrid System in $CO_2$ Reduction. ACS Catalysis, 2020, 10, 751-761.	11.2	43
15	Tracking Nanoelectrochemistry Using Individual Plasmonic Nanocavities. Nano Letters, 2017, 17, 4840-4845.	9.1	42
16	ExoMol line lists XXXI: spectroscopy of lowest eight electronic states of $C_2$ . Monthly Notices of the Royal Astronomical Society, 2018, 480, 3397-3411.	4.4	37
17	On the Choice of the Ab Initio Level of Theory for Potential Energy Surface Developments. Journal of Physical Chemistry A, 2014, 118, 646-654.	2.5	36
18	Anomalously Large Spectral Shifts near the Quantum Tunnelling Limit in Plasmonic Rulers with Subatomic Resolution. Nano Letters, 2019, 19, 2051-2058.	9.1	35

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19	Accurate <i>ab initio</i> potential energy surface, thermochemistry, and dynamics of the $F\dot{\text{a}} + CH_3F$ SN2 and proton-abstraction reactions. <i>Journal of Chemical Physics</i> , 2015, 142, 244301.	3.0	33
20	Cucurbit[8]uril-mediated pseudo[2,3]rotaxanes. <i>Chemical Communications</i> , 2019, 55, 13227-13230.	4.1	29
21	Inhibiting Analyte Theft in Surface-Enhanced Raman Spectroscopy Substrates: Subnanomolar Quantitative Drug Detection. <i>ACS Sensors</i> , 2019, 4, 2988-2996.	7.8	27
22	Benchmark <i>ab Initio</i> Characterization of the Complex Potential Energy Surface of the $Cl\dot{\text{a}} + CH_3I$ Reaction. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5748-5757.	2.5	23
23	Smart supramolecular sensing with cucurbit[ <i>n</i> ]urils: probing hydrogen bonding with SERS. <i>Faraday Discussions</i> , 2017, 205, 505-515.	3.2	20
24	Benchmark <i>ab initio</i> and dynamical characterization of the stationary points of reactive atom + alkane and $S_N2$ potential energy surfaces. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4298-4312.	2.8	17
25	Mode-specific multi-channel dynamics of the $F\dot{\text{a}} + CHD_2Cl$ reaction on a global <i>ab initio</i> potential energy surface. <i>Journal of Chemical Physics</i> , 2016, 145, 134303.	3.0	15
26	Rotational Mode Specificity in the $F\dot{\text{a}} + CH_3Y$ [Y = F and Cl] $S_N2$ Reactions. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12231-12237.	2.5	9
27	Temperature-Dependent, Effective Structures of the $^{14}NH_3$ and $^{14}ND_3$ Molecules. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4356-4362.	2.5	8
28	Toward Understanding CB[7]-Based Supramolecular Diels-Alder Catalysis. <i>Frontiers in Chemistry</i> , 2020, 8, 587084.	3.6	6
29	Gas-phase structures reflect the pain-relief potency of enkephalin peptides. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22700-22703.	2.8	3
30	Combining data integration and molecular dynamics for target identification in $\beta$ -Synuclein-aggregating neurodegenerative diseases: Structural insights on Synaptojanin-1 (Synj1). <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 1032-1042.	4.1	3
31	1 Host-guest Chemistry Meets Electrocatalysis: Cucurbit[6]uril on a Au Surface as Hybrid System in CO <sub>2</sub> Reduction. , 0, , .		0
32	Host-guest Chemistry Meets Electrocatalysis: Cucurbit[6]uril on a Au Surface as Hybrid System in CO <sub>2</sub> Reduction. , 0, , .		0