Karoly Nemeth

List of Publications by Year
in descending order

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46	820	430874	501196
papers	citations	18	28
		h-index	g-index

47	47	47	873
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Radical anion functionalization of two-dimensional materials as a means of engineering simultaneously high electronic and ionic conductivity solids. Nanotechnology, 2021, 32, 245709.	2.6	2
2	Li₃BN₂ as a Transition Metal Free, High Capacity Cathode for Liâ€ion Batteries. ChemElectroChem, 2019, 6, 320-325.	3.4	9
3	On the synthesis of lithium boron nitride (Li3BN2). Ceramics International, 2018, 44, 7734-7740.	4.8	6
4	Simultaneous oxygen and boron trifluoride functionalization of hexagonal boron nitride: a designer cathode material for energy storage. Theoretical Chemistry Accounts, 2018, 137, 1.	1.4	7
5	Metallic and semiconducting 1D conjugated polymers based on $$mathrm{-S-Cequiv C-}$$ repeating units in poly(sulfur acetylide). Highlights in Theoretical Chemistry, 2016, , 199-204.	0.0	0
6	Experimental and theoretical investigations of functionalized boron nitride as electrode materials for Li-ion batteries. RSC Advances, 2016, 6, 27901-27914.	3.6	27
7	Metallic and semiconducting 1D conjugated polymers based on â€“Sâ€“C $$equiv $$ â‰¡ Câ€“ repeating units in poly(sulfur acetylide). Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	0
8	The synthesis of ternary acetylides with tellurium: Li₂TeC₂ and Na₂TeC₂. RSC Advances, 2015, 5, 55986-55993.	3.6	3
9	Ultrahigh energy density Li-ion batteries based on cathodes of 1D metals with â€“Liâ€“Nâ€“Bâ€“Nâ€“ repeating units in Î±-LixBN2 (1 â©½ x â©½ 3). Journal of Chemical Physics, 2014, 141, 054711.	3.0	11
10	Metal-Insulator Photocathode Heterojunction for Directed Electron Emission. Physical Review Letters, 2014, 112, 067601.	7.8	12
11	Materials design by quantumâ€chemical and other theoretical/computational means: Applications to energy storage and photoemissive materials. International Journal of Quantum Chemistry, 2014, 114, 1031-1035.	2.0	7
12	CO₂/oxalate cathodes as safe and efficient alternatives in high energy density metalâ€“air type rechargeable batteries. RSC Advances, 2014, 4, 1879-1885.	3.6	19
13	Searching for low-workfunction phases in the Cs-Te system: The case of Cs2Te5. Journal of Applied Physics, 2013, 113, 183703.	2.5	3
14	Anomalous work function anisotropy in ternary acetylides. Physical Review B, 2012, 86, .	3.2	14
15	Efficient simultaneous reverse Monte Carlo modeling of pair-distribution functions and extended x-ray-absorption fine structure spectra of crystalline disordered materials. Journal of Chemical Physics, 2012, 136, 074105.	3.0	16
16	Theoretical Design of High-Brightness Photocathodes Based on Ultrathin Surface Layers on Metals and on Nanostructures. , 2010, , .		0
17	The choice of internal coordinates in complex chemical systems. Journal of Computational Chemistry, 2010, 31, 2078-2086.	3.3	6
18	High-Brightness Photocathodes through Ultrathin Surface Layers on Metals. Physical Review Letters, 2010, 104, 046801.	7.8	26

#	Article	IF	Citations
19	Trace correcting density matrix extrapolation in self-consistent geometry optimization. Journal of Chemical Physics, 2010, 132, 124104.	3.0	3
20	Laser-Driven Coherent Betatron Oscillation in a Laser-Wakefield Cavity: Formation of Sinusoid Beam Shapes and Coherent Trajectories. , 2009, , .		2
21	Laser-Driven Coherent Betatron Oscillation in a Laser-Wakefield Cavity. Physical Review Letters, 2008, 100, 095002.	7.8	92
22	Beam slowing down in a laser plasma accelerator by laser-induced betatron oscillation. , 2008, , .		0
23	Electron injection by a nanowire in the bubble regime. Physics of Plasmas, 2007, 14, 053115.	1.9	36
24	First-principles isomer-specific absorption spectra ofAg11. Physical Review B, 2007, 75, .	3.2	28
25	Calculation of Vibrational Spectra of Linear Tetrapyrroles. 3. Hydrogen-Bonded Hexamethylpyrromethene Dimers. Journal of Physical Chemistry A, 2005, 109, 2139-2150.	2.5	20
26	Geometry optimization of crystals by the quasi-independent curvilinear coordinate approximation. Journal of Chemical Physics, 2005, 123, 194112.	3.0	7
27	The quasi-independent curvilinear coordinate approximation for geometry optimization. Journal of Chemical Physics, 2004, 121, 2877-2885.	3.0	21
28	An efficient method for the coordinate transformation problem of massively three-dimensional networks. Journal of Chemical Physics, 2001, 114, 9747-9753.	3.0	18
29	Linear scaling density matrix search based onsignmatrices. Journal of Chemical Physics, 2000, 113, 6035-6041.	3.0	43
30	Linear scaling algorithm for the coordinate transformation problem of molecular geometry optimization. Journal of Chemical Physics, 2000, 113, 5598-5603.	3.0	27
31	Calculation of the Vibrational Spectra of Linear Tetrapyrroles. 2. Resonance Raman Spectra of Hexamethylpyrromethene Monomersâ€. Journal of Physical Chemistry B, 2000, 104, 10885-10899.	2.6	27
32	Interpretation of the resonance Raman spectra of linear tetrapyrroles based on DFT calculations. Chemical Physics Letters, 1999, 311, 479-484.	2.6	38
33	Calculation of Vibrational Spectra of Linear Tetrapyrroles. 1. Global Sets of Scaling Factors for Force Fields Derived by ab Initio and Density Functional Theory Methods. Journal of Physical Chemistry A, 1999, 103, 289-303.	2.5	39
34	Vibrational analysis of model compounds for the tetrapyrrole chromophore in phytochrome. , 1999, , 171-172.		0
35	Triplet State Characteristics of Higher Fullerenes. Journal of Physical Chemistry A, 1998, 102, 1261-1273.	2.5	26
36	Triplet State Characteristics of Smaller Fullerenes. Fullerenes, Nanotubes, and Carbon Nanostructures, 1997, 5, 355-373.	0.6	2

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37	On The Differences Between Neutral and Negatively Charged C60Dimers. Fullerenes, Nanotubes, and Carbon Nanostructures, 1997, 5, 429-442.	0.6	1
38	Zero-field splitting of the lowest excited triplet state in thiophene oligomers. An experimental and theoretical investigation. Synthetic Metals, 1997, 84, 607-608.	3.9	8
39	Energetics and zero-field-splitting in triplet states of C70. Computational and Theoretical Chemistry, 1997, 398-399, 293-300.	1.5	7
40	Excited states of the C60 dimer. Synthetic Metals, 1996, 77, 107-110.	3.9	9
41	Zero-field-splitting in the lowest triplet state of C60. Chemical Physics Letters, 1996, 251, 115-118.	2.6	37
42	Structure and energetics of neutral and negatively charged C60 dimers. Chemical Physics Letters, 1996, 256, 119-125.	2.6	63
43	Zeroâ€fieldâ€splitting and Ï€â€electron spin densities in the lowest excited triplet state of oligothiophenes. Journal of Chemical Physics, 1996, 105, 4441-4447.	3.0	34
44	Band structures of neutral and doped (C60)x polymers. Solid State Communications, 1994, 92, 407-411.	1.9	34
45	Electronic excitations in fullerenes: Jahnâ€”Teller distorted structures of C60. Computational and Theoretical Chemistry, 1994, 311, 55-68.	1.5	27
46	Quinoid-aromatic competition as a tool for band structure design for conjugated polymers. Synthetic Metals, 1993, 57, 4260-4265.	3.9	3