Mohammad Hossein Keshavarz

List of Publications by Year
in descending order

206 papers	3,878 citations	147801 31 h-index	265206 42 g-index
212 all docs	212 docs citations	212 times ranked	1473 citing authors

#	Article	IF	Citations
1	An empirical method for predicting detonation pressure of CHNOFCl explosives. Thermochimica Acta, 2004, 414, 203-208.	2.7	79
2	Simple empirical method for prediction of impact sensitivity of selected class of explosives. Journal of Hazardous Materials, 2005, 124, 27-33.	12.4	72
3	A new computer code to evaluate detonation performance of high explosives and their thermochemical properties, part I. Journal of Hazardous Materials, 2009, 172, 1218-1228.	12.4	64
4	Prediction of shock sensitivity of explosives based on small-scale gap test. Journal of Hazardous Materials, 2007, 145, 109-112.	12.4	63
5	Novel correlation for predicting impact sensitivity of nitroheterocyclic energetic molecules. Journal of Hazardous Materials, 2007, 141, 803-807.	12.4	62
6	A New General Correlation for Predicting Impact Sensitivity of Energetic Compounds. Propellants, Explosives, Pyrotechnics, 2013, 38, 754-760.	1.6	59
7	Theoretical prediction of electric spark sensitivity of nitroaromatic energetic compounds based on molecular structure. Journal of Hazardous Materials, 2008, 153, 201-206.	12.4	55
8	Prediction of the condensed phase heat of formation of energetic compounds. Journal of Hazardous Materials, 2011, 190, 330-344.	12.4	55
9	Prediction of impact sensitivity of nitroaliphatic, nitroaliphatic containing other functional groups and nitrate explosives. Journal of Hazardous Materials, 2007, 148, 648-652.	12.4	54
10	Simple procedure for determining heats of detonation. Thermochimica Acta, 2005, 428, 95-99.	2.7	49
11	Simple method for prediction of activation energies of the thermal decomposition of nitramines. Journal of Hazardous Materials, 2009, 162, 1557-1562.	12.4	47
12	Energetic Materials Designing Bench (EMDB), Version 1.0. Propellants, Explosives, Pyrotechnics, 2017, 42, 854-856.	1.6	46
13	Prediction of detonation performance of CHNO and CHNOAl explosives through molecular structure. Journal of Hazardous Materials, 2009, 166, 1296-1301.	12.4	45
14	New method for predicting detonation velocities of aluminized explosives. Combustion and Flame, 2005, 142, 303-307.	5.2	43
15	Theoretical prediction of condensed phase heat of formation of nitramines, nitrate esters, nitroaliphatics and related energetic compounds. Journal of Hazardous Materials, 2006, 136, 145-150.	12.4	43
16	A simple accurate model for prediction of deflagration temperature of energetic compounds. Journal of Thermal Analysis and Calorimetry, 2013, 112, 1453-1463.	3.6	43
17	A link between impact sensitivity of energetic compounds and their activation energies of thermal decomposition. Journal of Thermal Analysis and Calorimetry, 2014, 117, 423-432.	3.6	41
18	Approximate prediction of melting point of nitramines, nitrate esters, nitrate salts and nitroaliphatics energetic compounds. Journal of Hazardous Materials, 2006, 138, 448-451.	12.4	40

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19	Reliable prediction of electric spark sensitivity of nitramines: A general correlation with detonation pressure. Journal of Hazardous Materials, 2009, 167, 461-466.	12.4	39
20	Approach for determination of detonation performance and aluminum percentage of aluminized-based explosives by laser-induced breakdown spectroscopy. Applied Optics, 2016, 55, 3233.	1.8	38
21	New method for calculating densities of nitroaromatic explosive compounds. Journal of Hazardous Materials, 2007, 145, 263-269.	12.4	37
22	Prediction of heats of sublimation of energetic compounds using their molecular structures. Journal of Thermal Analysis and Calorimetry, 2015, 120, 1941-1951.	3.6	37
23	A simple method for prediction of density of ionic liquids through their molecular structure. Journal of Molecular Liquids, 2016, 216, 732-737.	4.9	37
24	A simple procedure for calculating condensed phase heat of formation of nitroaromatic energetic materials. Journal of Hazardous Materials, 2006, 136, 425-431.	12.4	36
25	A simple method for assessing chemical toxicity of ionic liquids on Vibrio fischeri through the structure of cations with specific anions. Ecotoxicology and Environmental Safety, 2019, 182, 109429.	6.0	35
26	Determination of performance of non-ideal aluminized explosives. Journal of Hazardous Materials, 2006, 137, 83-87.	12.4	34
27	Simple method for reliable predicting flash points of unsaturated hydrocarbons. Journal of Hazardous Materials, 2011, 193, 335-341.	12.4	34
28	Prediction of the Strength of Energetic Materials Using the Condensed and Gas Phase Heats of Formation. Propellants, Explosives, Pyrotechnics, 2015, 40, 551-557.	1.6	34
29	A New Computer Code for Assessment of Energetic Materials with Crystal density, Condensed Phase Enthalpy of Formation, and Activation Energy of Thermolysis. Propellants, Explosives, Pyrotechnics, 2013, 38, 95-102.	1.6	33
30	Reliable prediction of the condensed (solid or liquid) phase enthalpy of formation of organic energetic materials at 298ÂK through their molecular structures. Fluid Phase Equilibria, 2016, 408, 248-258.	2.5	33
31	Prediction of densities of acyclic and cyclic nitramines, nitrate esters and nitroaliphatic compounds for evaluation of their detonation performance. Journal of Hazardous Materials, 2007, 143, 437-442.	12.4	32
32	Novel method for predicting densities of polynitro arene and polynitro heteroarene explosives in order to evaluate their detonation performance. Journal of Hazardous Materials, 2009, 165, 579-588.	12.4	32
33	Improved reliable approach to predict melting points of energetic compounds. Fluid Phase Equilibria, 2011, 308, 114-128.	2.5	32
34	A novel approach for investigation of chemical aging in composite propellants through laser-induced breakdown spectroscopy (LIBS). Journal of Thermal Analysis and Calorimetry, 2016, 124, 279-286.	3.6	32
35	A simple approach for determining detonation velocity of high explosive at any loading density. Journal of Hazardous Materials, 2005, 121, 31-36.	12.4	31
36	The simplest method for calculating energy output and Gurney velocity of explosives. Journal of Hazardous Materials, 2006, 131, 1-5.	12.4	31

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37	Simple correlation for predicting detonation velocity of ideal and non-ideal explosives. Journal of Hazardous Materials, 2009, 166, 762-769.	12.4	30
38	The effect of metal oxide particle size on the thermal behavior and ignition kinetic of Mgâ€“CuO thermite mixture. Thermochimica Acta, 2016, 626, 1-8.	2.7	30
39	Energetic materials identification by laser-induced breakdown spectroscopy combined with artificial neural network. Applied Optics, 2017, 56, 3372.	2.1	29
40	Simple determination of performance of explosives without using any experimental data. Journal of Hazardous Materials, 2005, 119, 25-29.	12.4	28
41	New approach for predicting melting point of carbocyclic nitroaromatic compounds. Journal of Hazardous Materials, 2007, 148, 592-598.	12.4	28
42	New method for predicting melting points of polynitro arene and polynitro heteroarene compounds. Journal of Hazardous Materials, 2009, 171, 786-796.	12.4	28
43	Relationship between electric spark sensitivity and activation energy of the thermal decomposition of nitramines for safety measures in industrial processes. Journal of Loss Prevention in the Process Industries, 2013, 26, 1452-1456.	3.3	28
44	A reliable simple method to estimate density of nitroaliphatics, nitrate esters and nitramines. Journal of Hazardous Materials, 2009, 169, 158-169.	12.4	27
45	A new approach to predict the condensed phase heat of formation in acyclic and cyclic nitramines, nitrate esters and nitroaliphatic energetic compounds. Journal of Hazardous Materials, 2009, 171, 140-146.	12.4	27
46	Validation of improved simple method for prediction of activation energy of the thermal decomposition of energetic compounds. Journal of Thermal Analysis and Calorimetry, 2013, 114, 497-510.	3.6	27
47	A simple and reliable method for prediction of flash point of alcohols based on their elemental composition and structural parameters. Chemical Engineering Research and Design, 2016, 102, 1-8.	5.6	27
48	Prediction of heats of sublimation of nitroaromatic compounds via their molecular structure. Journal of Hazardous Materials, 2008, 151, 499-506.	12.4	26
49	Improved prediction of heats of sublimation of energetic compounds using their molecular structure. Journal of Hazardous Materials, 2010, 177, 648-659.	12.4	26
50	Effect of borax on the thermal and mechanical properties of ethyleneâ€propyleneâ€diene terpolymer rubberâ€based heat insulator. Journal of Applied Polymer Science, 2015, 132, .	2.6	26
51	Prediction of decomposition onset temperature and heat of decomposition of organic peroxides using simple approaches. Journal of Thermal Analysis and Calorimetry, 2016, 125, 887-896.	3.6	26
52	A new nanocomposite based on poly (o-anthranilic acid), graphene oxide and functionalized carbon nanotube as an efficient corrosion inhibitor for stainless steel in severe environmental corrosion. Composites Communications, 2020, 22, 100467.	6.3	26
53	A simple method to assess detonation temperature without using any experimental data and computer code. Journal of Hazardous Materials, 2006, 133, 129-134.	12.4	25
54	Quick estimation of heats of detonation of aromatic energetic compounds from structural parameters. Journal of Hazardous Materials, 2007, 143, 549-554.	12.4	25

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55	A simple correlation for predicting heats of fusion of nitroaromatic carbocyclic energetic compounds. Journal of Hazardous Materials, 2008, 150, 387-393.	12.4	25
56	A simple approach for predicting impact sensitivity of polynitroheteroarenes. Journal of Hazardous Materials, 2009, 166, 1115-1119.	12.4	25
57	Accurate prediction of the toxicity of benzoic acid compounds in mice via oral without using any computer codes. Journal of Hazardous Materials, 2012, 237-238, 79-101.	12.4	25
58	A novel method for risk assessment of electrostatic sensitivity of nitroaromatics through their activation energies of thermal decomposition. Journal of Thermal Analysis and Calorimetry, 2014, 115, 93-100.	3.6	25
59	Detonation temperature of high explosives from structural parameters. Journal of Hazardous Materials, 2006, 137, 1303-1308.	12.4	24
60	Predicting condensed phase heat of formation of nitroaromatic compounds. Journal of Hazardous Materials, 2009, 169, 890-900.	12.4	24
61	Reductive amination of aldehydes and ketones by NaBH₄using carbon-based solid acid (CBSA) as catalyst. Green Chemistry Letters and Reviews, 2011, 4, 195-203.	4.7	24
62	Predicting Detonation Performance of CHNOFCl and Aluminized Explosives. Propellants, Explosives, Pyrotechnics, 2014, 39, 749-754.	1.6	24
63	A reliable method for prediction of enthalpy of fusion in energetic materials using their molecular structures. Fluid Phase Equilibria, 2016, 427, 46-55.	2.5	24
64	Predicting activation energy of thermolysis of polynitro arenes through molecular structure. Journal of Hazardous Materials, 2008, 160, 142-147.	12.4	23
65	Relationship between the results of laser-induced breakdown spectroscopy and dynamical mechanical analysis in composite solid propellants during their aging. Applied Optics, 2016, 55, 4362.	2.1	23
66	Simple Approach to Predict Corrosion Inhibition Efficiency of Imidazole and Benzimidazole Derivatives as well as Linear Organic Compounds Containing Several Polar Functional Groups. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 906-913.	1.2	23
67	A new simple approach to predict entropy of fusion of nitroaromatic compounds. Fluid Phase Equilibria, 2010, 298, 24-32.	2.5	22
68	A simple method to predict melting points of non-aromatic energetic compounds. Fluid Phase Equilibria, 2010, 292, 1-6.	2.5	22
69	A group contribution method for estimation of glass-transition temperature of 1,3-dialkylimidazolium ionic liquids. Journal of Thermal Analysis and Calorimetry, 2013, 114, 1363-1382.	3.6	22
70	Prediction of Sensitivity of Energetic Compounds with a New Computer Code. Propellants, Explosives, Pyrotechnics, 2014, 39, 95-101.	1.6	22
71	Two novel correlations for assessment of crystal density of hazardous ionic molecular energetic materials using their molecular structures. Fluid Phase Equilibria, 2015, 402, 1-8.	2.5	22
72	Copperâ€“cobalt synergy in Cu_{1â^'x}Co_xFe₂O₄spinel ferrite as a highly efficient and regioselective nanocatalyst for the synthesis of 2,4-dinitrotoluene. RSC Advances, 2015, 5, 71911-71921.	3.6	22

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73	Improved method for prediction of density of energetic compounds using their molecular structure. Structural Chemistry, 2015, 26, 455-466.	2.0	22
74	A New Method for Predicting Decomposition Temperature of Imidazoliumâ€based Energetic Ionic Liquids. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 171-179.	1.2	22
75	Determining heats of detonation of non-aromatic energetic compounds without considering their heats of formation. Journal of Hazardous Materials, 2007, 142, 54-57.	12.4	21
76	A new method for predicting the heats of combustion of polynitro arene, polynitro heteroarene, acyclic and cyclic nitramine, nitrate ester and nitroaliphatic compounds. Journal of Hazardous Materials, 2011, 185, 1086-1106.	12.4	21
77	New NHNO2 substituted borazine-based energetic materials with high detonation performance. Computational Materials Science, 2015, 97, 295-303.	3.0	21
78	A new approach for assessment of glass transition temperature of acrylic and methacrylic polymers from structure of their monomers without using any computer codes. Journal of Thermal Analysis and Calorimetry, 2016, 126, 1787-1796.	3.6	21
79	Simple approach for predicting the heats of formation of high nitrogen content materials. Fluid Phase Equilibria, 2016, 415, 166-175.	2.5	21
80	Detonation velocity of pure and mixed CHNO explosives at maximum nominal density. Journal of Hazardous Materials, 2007, 141, 536-539.	12.4	20
81	A simple accurate model for prediction of flash point temperature of pure compounds. Journal of Thermal Analysis and Calorimetry, 2012, 110, 1005-1012.	3.6	20
82	Introducing Novel Tetrazole Derivatives as High Performance Energetic Compounds for Confined Explosion and as Oxidizer in Solid Propellants. Propellants, Explosives, Pyrotechnics, 2017, 42, 492-498.	1.6	20
83	Reliable approach for prediction of heats of formation of polycyclic saturated hydrocarbons using recently developed density functionals. Computational and Theoretical Chemistry, 2013, 1011, 30-36.	2.5	19
84	A Reliable Method for Prediction of the Condensed Phase Enthalpy of Formation of High Nitrogen Content Materials through their Gas Phase Information. ChemistrySelect, 2016, 1, 5286-5296.	1.5	19
85	A novel method for predicting melting point of ionic liquids. Chemical Engineering Research and Design, 2018, 116, 333-339.	5.6	19
86	Heats of sublimation of nitramines based on simple parameters. Journal of Hazardous Materials, 2008, 152, 929-933.	12.4	18
87	Improved method for reliable predicting enthalpy of fusion of energetic compounds. Fluid Phase Equilibria, 2012, 326, 1-14.	2.5	18
88	Simple and reliable prediction of toxicological activities of benzoic acid derivatives without using any experimental data or computer codes. Medicinal Chemistry Research, 2013, 22, 1238-1257.	2.4	18
89	Improved Approach to Predict the Power of Energetic Materials. Propellants, Explosives, Pyrotechnics, 2013, 38, 709-714.	1.6	18
90	A New Computer Code for Prediction of Enthalpy of Fusion and Melting Point of Energetic Materials. Propellants, Explosives, Pyrotechnics, 2015, 40, 150-155.	1.6	18

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91	Relationship between Activation Energy of Thermolysis and Friction Sensitivity of Cyclic and Acyclic Nitramines. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 182-188.	1.2	18
92	Using molecular structure for reliable predicting enthalpy of melting of nitroaromatic energetic compounds. Journal of Hazardous Materials, 2010, 178, 264-272.	12.4	17
93	Reliable method for prediction of the flash point of various classes of amines on the basis of some molecular moieties for safety measures in industrial processes. Journal of Loss Prevention in the Process Industries, 2013, 26, 650-659.	3.3	17
94	The synthesis and characterization of polyvinyl nitrate as an energetic polymer and study of its thermal behavior. Journal of Thermal Analysis and Calorimetry, 2015, 119, 613-618.	3.6	17
95	A simple model for reliable prediction of the specific heat release capacity of polymers as an important characteristic of their flammability. Journal of Thermal Analysis and Calorimetry, 2017, 128, 417-426.	3.6	17
96	Assessing the Detonation Performance of New Tetrazole Base High Energy Density materials. Propellants, Explosives, Pyrotechnics, 2018, 43, 1236-1244.	1.6	17
97	Velocity of detonation at any initial density without using heat of formation of explosives. Journal of Hazardous Materials, 2006, 137, 1328-1332.	12.4	16
98	Preparation of Nano-K-6 (Nano-Keto RDX) and Determination of Its Characterization and Thermolysis. Journal of Energetic Materials, 2011, 29, 115-126.	2.0	16
99	A simple correlation for prediction of autoignition temperature of various classes of hydrocarbons. Journal of the Iranian Chemical Society, 2013, 10, 545-557.	2.2	16
100	Prediction of the Brisance of Energetic Materials. Propellants, Explosives, Pyrotechnics, 2014, 39, 284-288.	1.6	16
101	A new approach for accurate prediction of toxicity of amino compounds. Journal of the Iranian Chemical Society, 2015, 12, 487-502.	2.2	16
102	A novel approach for assessment of thermal stability of organic azides through prediction of their temperature of maximum mass loss. Journal of Thermal Analysis and Calorimetry, 2017, 129, 1659-1665.	3.6	16
103	Reducing Dangerous Effects of Unsymmetrical Dimethylhydrazine as a Liquid Propellant by Addition of Hydroxyethylhydrazineâ€"Part I: Physical Properties. Journal of Energetic Materials, 2011, 29, 46-60.	2.0	15
104	Predicting Maximum Attainable Detonation Velocity of CHNOF and Aluminized Explosives. Propellants, Explosives, Pyrotechnics, 2012, 37, 489-497.	1.6	15
105	Sensitivity of dimethyl amino ethyl azide (DMAZ) as a non-carcinogenic and high performance fuel to some external stimuli. Journal of Loss Prevention in the Process Industries, 2014, 29, 277-282.	3.3	15
106	Performance Evaluation of Liquid Fuel 2-Dimethyl Amino Ethyl Azide (DMAZ) with Liquid Oxidizers. Journal of Energetic Materials, 2015, 33, 17-23.	2.0	15
107	The influence of magnesium powder on the thermal behavior of Alâ€"CuO thermite mixture. Journal of Thermal Analysis and Calorimetry, 2017, 129, 1847-1854.	3.6	15
108	A Simple Way to Predict Heats of Detonation of Energetic Compounds only from Their Molecular Structures. Propellants, Explosives, Pyrotechnics, 2012, 37, 93-99.	1.6	14

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109	An improved simple method for prediction of entropy of fusion of energetic compounds. Fluid Phase Equilibria, 2013, 340, 52-62.	2.5	14
110	Thermochemical, Sensitivity and Detonation Characteristics of New Thermally Stable High Performance Explosives. Propellants, Explosives, Pyrotechnics, 2015, 40, 886-891.	1.6	14
111	Risk assessment of organic aromatic compounds to Tetrahymena pyriformis in environmental protection by a simple QSAR model. Chemical Engineering Research and Design, 2021, 150, 137-147.	5.6	14
112	Reliable estimation of performance of explosives without considering their heat contents. Journal of Hazardous Materials, 2007, 147, 826-831.	12.4	13
113	Theoretical investigation of phase transformations and molecular surface properties of polycyclic saturated hydrocarbon isomers of JP-10. Computational and Theoretical Chemistry, 2013, 1006, 105-112.	2.5	13
114	A suitable computer code for prediction of sublimation energy and deflagration temperature of energetic materials. Journal of Thermal Analysis and Calorimetry, 2015, 121, 675-681.	3.6	13
115	Relation between Electric Spark Sensitivity and Impact Sensitivity of Nitroaromatic Energetic Compounds. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 335-342.	1.2	13
116	Constants of explosive limits. Chemical Engineering Science, 2017, 173, 384-389.	3.8	13
117	Introducing Laser Induced Breakdown Spectroscopy (LIBS) as a Novel, Cheap and Nonâ€destructive Method to Study the Changes of Mechanical Properties of Plastic Bonded Explosives (PBX). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 1667-1673.	1.2	13
118	Combustible Organic Materials. , 2018, , .		13
119	Simple Pathway to Predict the Power of High Energy Materials. Propellants, Explosives, Pyrotechnics, 2011, 36, 424-429.	1.6	12
120	DFT molecular orbital calculations of initial step in decomposition pathways of TNAZ and some of its derivatives with â€“F, â€“CN and â€“OCH3 groups. Computational and Theoretical Chemistry, 2011, 964, 262-268.	2.5	12
121	Structural, thermochemical and detonation performance of derivatives of 1,2,4,5-tetrazine and 1,4 N-oxide 1,2,4,5-tetrazine as new high-performance and nitrogen-rich energetic materials. Journal of the Iranian Chemical Society, 2017, 14, 57-63.	2.2	12
122	New and reliable model for prediction of autoignition temperature of organic compounds containing energetic groups. Chemical Engineering Research and Design, 2018, 113, 491-497.	5.6	12
123	A Simple Method for Safe Determination of the Activity of Palladium on Activated Carbon Catalysts in the Hydrogenation of Cinnamic Acid to Hydrocinnamic Acid. Industrial & Engineering Chemistry Research, 2020, 59, 1862-1874.	3.7	12
124	A New Method for Predicting Heats of Decomposition of Nitroaromatics. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 1818-1823.	1.2	11
125	Performance Assessment of Some Isomers of Saturated Polycyclic Hydrocarbons for Use as Jet Fuels. Propellants, Explosives, Pyrotechnics, 2015, 40, 309-314.	1.6	11
126	A new method for assessment of glass transition temperature of ionic liquids from structure of their cations and anions without using any computer codes. Journal of Thermal Analysis and Calorimetry, 2017, 130, 2369-2387.	3.6	11

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127	A simple approach for assessment of the corrosion inhibition efficiency of triazole, oxadiazole and thiadiazole derivatives as a function of their concentrations without using complex computer codes. Protection of Metals and Physical Chemistry of Surfaces, 2017, 53, 359-372.	1.1	11
128	The effect of cellulose derivatives on the phase transition and thermal behavior of ammonium nitrate. Journal of Thermal Analysis and Calorimetry, 2017, 128, 1049-1056.	3.6	11
129	New Correlation between Electric Spark and Impact Sensitivities of Nitramine Energetic Compounds for Assessment of Their Safety. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1227-1231.	1.2	11
130	The simplest model for reliable prediction of the total heat release of polymers for assessment of their combustion properties. Journal of Thermal Analysis and Calorimetry, 2018, 131, 2235-2242.	3.6	11
131	Correlations Between Laser Induced Breakdown Spectroscopy (LIBS) and Dynamical Mechanical Analysis (DMA) for Assessment of Aging Effect on Plastic Bonded Explosives (PBX). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 120-125.	1.2	11
132	Assessment of the effect of N-oxide group in a new high-performance energetic tetrazine derivative on its physicochemical and thermodynamic properties, sensitivity, and combustion and detonation performance. Chemistry of Heterocyclic Compounds, 2017, 53, 797-801.	1.2	10
133	A Simple Method for the Reliable Prediction of Char Yield of Polymers. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1049-1056.	1.2	10
134	Correlation between Shock Sensitivity of Nitramine Energetic Compounds based on Smallâ€scale Gap Test and Their Electric Spark Sensitivity. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 2158-2162.	1.2	10
135	Assessment of Recent Researches for Reliable Prediction of Density of Organic Compounds as well as Ionic Liquids and Salts Containing Energetic Groups at Room Temperature. Propellants, Explosives, Pyrotechnics, 2020, 45, 1680-1690.	1.6	10
136	Reducing Dangerous Effects of Unsymmetrical Dimethyl Hydrazine as a Liquid Propellant by Addition of Hydroxyethylhydrazine, Part II, Performance with Several Oxidizers. Journal of Energetic Materials, 2011, 29, 228-240.	2.0	9
137	A new approach to predict the strength of high energy materials. Journal of Hazardous Materials, 2011, 186, 175-181.	12.4	9
138	Thermochemical and detonation performance of boron-nitride analogues of organic azides and benzotrifuroxan as novel high energetic nitrogen-rich precursors. Journal of the Iranian Chemical Society, 2015, 12, 1077-1087.	2.2	9
139	High Performance Nitroazacubane Energetic Compounds: Structural, Thermochemical and Detonation Characteristics. ChemistrySelect, 2016, 1, 6735-6740.	1.5	9
140	Reliable method for safety assessment of melting points of energetic compounds. Chemical Engineering Research and Design, 2016, 103, 10-22.	5.6	9
141	Electro-oxidation of methanol catalysed by porous nanostructured Fe/Pd-Fe electrode in alkaline medium. Journal of the Iranian Chemical Society, 2016, 13, 815-822.	2.2	9
142	A novel method for predicting decomposition onset temperature of cubic polyhedral oligomeric silsesquioxane derivatives. Journal of Thermal Analysis and Calorimetry, 2018, 132, 761-770.	3.6	9
143	Simple approach for prediction of melting points of organic molecules containing hazardous peroxide bonds. Journal of the Iranian Chemical Society, 2015, 12, 587-598.	2.2	8
144	A Simple Method for Reliable Estimation of the Bubble Energy in the Underwater Explosion. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 1402-1407.	1.2	8

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145	Simple method to calculate explosion temperature of ideal and non-ideal energetic compounds. Journal of Energetic Materials, 2020, 38, 206-213.	2.0	8
146	Prediction of Enthalpy of Fusion of Nonâ€aromatic Energetic Compounds Containing Nitramine, Nitrate and Nitro Functional Groups. Propellants, Explosives, Pyrotechnics, 2011, 36, 42-47.	1.6	7
147	Assessment of the Strength of Energetic Compounds Through the Trauzl Lead Block Expansions Using Their Molecular Structures. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 2446-2451.	1.2	7
148	Increment of activity of Pd(OH)₂/C catalyst in order to improve the yield of high performance 2,4,6,8,10,12-hexanitrohexaazaisowurtzitane (HNIW). Inorganic and Nano-Metal Chemistry, 2017, 47, 1489-1494.	1.6	7
149	A Novel Class of Nitrogen-rich Explosives Containing High Oxygen Balance to Use as High Performance Oxidizers in Solid Propellants. Propellants, Explosives, Pyrotechnics, 2017, 42, 1155-1160.	1.6	7
150	A Novel and Simple Method for the Prediction of Corrosion Inhibition Efficiency without Using Complex Computer Codes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 2149-2157.	1.2	7
151	Synthesis and Investigation of the New Derivatives of Poly(Epichlorohydrin) Containing Energetic Groups. Propellants, Explosives, Pyrotechnics, 2018, 43, 83-89.	1.6	7
152	The effect of active aluminum content on the detonation performance of aluminized explosives. Journal of Energetic Materials, 0, , 1-13.	2.0	7
153	QSPR model for estimation of photodegradation average rate of the porphyrin-TiO2 complexes and prediction of their biodegradation activity and toxicity: Engineering of two annihilators for water/waste contaminants. Journal of Molecular Structure, 2022, 1249, 131463.	3.6	7
154	Application of laser-induced breakdown spectroscopy to assess palladium catalyst deactivation. Applied Optics, 2019, 58, 794.	1.8	7
155	A New Model for Prediction of One Electron Reduction Potential of Nitroaryl Compounds. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 2641-2648.	1.2	6
156	New method for assessment of melting points of organic azides using their molecular structures. Fluid Phase Equilibria, 2016, 427, 27-34.	2.5	6
157	Synthesis, characterization and thermal behavior of 2,4-dinitrophenoxy ethanol as a suitable plasticizer for propellants formulations. Journal of Thermal Analysis and Calorimetry, 2016, 126, 681-688.	3.6	6
158	A Simple Method for Predicting Friction Sensitivity of Quaternary Ammonium-Based Energetic Ionic Liquids. Propellants, Explosives, Pyrotechnics, 2018, 43, 568-573.	1.6	6
159	Corrosion Inhibition of Stainless Steel in HCl Solution Using Newly Aniline and o-Anthranilic Acid Copolymer. Protection of Metals and Physical Chemistry of Surfaces, 2019, 55, 795-802.	1.1	6
160	A Simple Correlation for Assessment of the Shock Wave Energy in Underwater Detonation. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 1146-1152.	1.2	6
161	An improved correlation for reliable assessment of the detonation performance of nonâ€ideal explosives containing metals and the other solid particulates. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 673-680.	1.2	6
162	Simple Approach for Reliable Prediction of Solubility of Polymers in Environmentally Compatible Solvents. Industrial & Engineering Chemistry Research, 2022, 61, 2425-2433.	3.7	6

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