

Vladimir Gun ko

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

358 papers	7,832 citations	44 h-index	66 g-index
365 ext. papers	8,590 ext. citations	5 avg, IF	5.99 L-index

#	Paper	IF	Citations
358	Controlled confined space effects on clustered water bound to hydrophobic nanosilica with nonpolar and polar co-adsorbates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 644, 128919	5.1	0
357	Atomic charge distribution functions as a tool to analyze electronic structure of molecular and cluster systems. <i>International Journal of Quantum Chemistry</i> , 2021 , 121, e26665	2.1	2
356	Polymer Adsorbents vs. Functionalized Oxides and Carbons: Particulate Morphology and Textural and Surface Characteristics. <i>Polymers</i> , 2021 , 13,	4.5	4
355	Interfacial behavior of polar and nonpolar frozen/unfrozen liquids interacting with hydrophilic and hydrophobic nanosilicas alone and in blends. <i>Journal of Colloid and Interface Science</i> , 2021 , 588, 70-83	9.3	4
354	Magneto-sensitive Carbon-inorganic Composites Based on Particleboard and Plywood Wastes. <i>Chemistry Journal of Moldova</i> , 2021 , 16, 68-78	0.9	0
353	Preparation and characterization of NiTiO ₂ /SiO ₂ nanocomposite catalysts for CO ₂ methanation. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 1	3.3	1
352	Temperature (200–283 K) dependence of methane adsorption onto hydrophobic nanosilica/arginine composite at various hydration. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 624, 126844	5.1	
351	Membrane-Filtered Kraft Lignin-Silica Hybrids as Bio-Based Sorbents for Cobalt(II) Ion Recycling. <i>ACS Omega</i> , 2020 , 5, 10847-10856	3.9	16
350	Modelling of multi-component kerosene and surrogate fuel droplet heating and evaporation characteristics: A comparative analysis. <i>Fuel</i> , 2020 , 269, 117115	7.1	17
349	Interfacial phenomena in natural nanostructured materials based on kaolinite and calcite in blends with nanosilica and neem leaf powder. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 586, 124238	5.1	1
348	Sugarcane bagasse and straw as low-cost lignocellulosic sorbents for the removal of dyes and metal ions from water. <i>Cellulose</i> , 2020 , 27, 8181-8197	5.5	15
347	Polymethylsiloxane alone and in composition with nanosilica under various conditions. <i>Journal of Colloid and Interface Science</i> , 2019 , 541, 213-225	9.3	10
346	The effect of photoactivated transformations of Ag ⁺ and Ag ⁰ in silica fillers on their biocidal activity. <i>Research on Chemical Intermediates</i> , 2019 , 45, 3985-4001	2.8	3
345	Effects of pre-adsorbed water on methane adsorption onto blends with hydrophobic and hydrophilic nanosilicas. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 570, 471-480	5.1	8
344	Effects of chemisorbed arsenate groups on the mesoporous titania morphology and enhanced adsorption properties towards Sr(II) cations. <i>Journal of Molecular Liquids</i> , 2019 , 282, 587-597	6	46
343	Morphology, Molecular Dynamics, and Interfacial Phenomena in Systems Based on Silica Modified by Grafting Polydimethylsiloxane Chains and Physically Adsorbed Polydimethylsiloxane. <i>Macromolecules</i> , 2019 , 52, 2863-2877	5.5	27
342	Influence of the Synthesis Method on the Structural Characteristics of Novel Hybrid Adsorbents Based on Bentonite. <i>Colloids and Interfaces</i> , 2019 , 3, 18	3	4

341	Nanostructured Amorphous Silicas Hydrophobized by Various Pathways. <i>ACS Omega</i> , 2019 , 4, 13863-13874	3.7	4
340	Silica-supported ($\text{Ni}_{\{x\}}\text{O}_{\{y\}}$), ($\text{Zn}_{\{x\}}\text{O}_{\{y\}}$) and ($\text{Mn}_{\{x\}}\text{O}_{\{y\}}$) nanocomposites: physicochemical characteristics and interactions with water and n-decane. <i>Bulletin of Materials Science</i> , 2019 , 42, 1	1.7	5
339	Nanostructured Polymethylsiloxane/Fumed Silica Blends. <i>Materials</i> , 2019 , 12,	3.5	2
338	Effect of mechanical treatment on the distribution of valence electrons and characteristics of nanocomposite $(\text{SiO}_2)_x(\text{Al}_2\text{O}_3)_{1-x}$ ($x = 0.8, x = 0.7$) electrodes in lithium power sources. <i>Applied Surface Science</i> , 2019 , 494, 1013-1022	6.7	2
337	Influence of water-soluble nonionic polymers adsorption on colloidal properties of nanosilica dispersions. <i>French-Ukrainian Journal of Chemistry</i> , 2019 , 7, 57-73	0.3	
336	Effects of enhanced clusterization of water at a surface of partially silylated nanosilica on adsorption of cations and anions from aqueous media. <i>Microporous and Mesoporous Materials</i> , 2019 , 277, 95-104	5.3	38
335	Polymer Composites With Functionalized Silica 2019 , 119-148		5
334	Morphology, crystallization and rigid amorphous fraction in PDMS adsorbed onto carbon nanotubes and graphite. <i>Polymer</i> , 2018 , 139, 130-144	3.9	35
333	Macro and micro wettability of hydrophobic siloxane films with hierarchical surface roughness. <i>Smart Materials and Structures</i> , 2018 , 27, 075002	3.4	2
332	Effect of water content on the characteristics of hydro-compacted nanosilica. <i>Applied Surface Science</i> , 2018 , 459, 171-178	6.7	28
331	Zeta Potential of Beta Zeolites: Influence of Structure, Acidity, pH, Temperature and Concentration. <i>Molecules</i> , 2018 , 23,	4.8	24
330	Influence of hydrophobic nanosilica and hydrophobic medium on water bound in hydrophilic components of complex systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 552, 39-47	5.1	22
329	Nanosilica modified by polydimethylsiloxane depolymerized and chemically bound to nanoparticles or physically bound to unmodified or modified surfaces: Structure and interfacial phenomena. <i>Journal of Colloid and Interface Science</i> , 2018 , 529, 273-282	9.3	15
328	Modified nanooxides and related composites for various applications. <i>Visnik Nacional Noi Akademii Nauk Ukraini</i> , 2018 , 01, 34-44	0.3	
327	Bonding of doxorubicin to nanosilica and human serum albumin in various media. <i>Journal of Colloid and Interface Science</i> , 2018 , 513, 809-819	9.3	4
326	Synthesis and structure characterization of polymeric nanoporous microspheres with lignin. <i>Cellulose</i> , 2018 , 25, 5843-5862	5.5	17
325	Water Interactions with Hydrophobic versus Hydrophilic Nanosilica. <i>Langmuir</i> , 2018 , 34, 12145-12153	4	24
324	Blends of amorphous/crystalline nanoalumina and hydrophobic amorphous nanosilica. <i>Journal of Non-Crystalline Solids</i> , 2018 , 500, 351-358	3.9	12

323	Heats of immersion of hydroxyapatite and hydroxyapatite/fumed oxides composites in water and n-decane. <i>Materials Chemistry and Physics</i> , 2018 , 215, 99-103	4.4	2
322	Interfacial effects in PDMS/titania nanocomposites studied by thermal and dielectric techniques. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 519, 212-222	5.1	17
321	Carbon/silica gel adsorbents. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 128, 1683-1697	4.1	6
320	Synthesis, Structural, and Adsorption Properties and Thermal Stability of Nanohydroxyapatite/Polysaccharide Composites. <i>Nanoscale Research Letters</i> , 2017 , 12, 155	5	33
319	Novel Porous Materials Obtained from Technical Lignins and Their Methacrylate Derivatives Copolymerized with Styrene and Divinylbenzene. <i>ChemistrySelect</i> , 2017 , 2, 2257-2264	1.8	4
318	Nanooxide/Polymer Composites with Silica@PDMS and Ceria-Zirconia-Silica@PDMS: Textural, Morphological, and Hydrophilic/Hydrophobic Features. <i>Nanoscale Research Letters</i> , 2017 , 12, 152	5	16
317	Mixed silica-alumina oxide as sorbent for dyes and metal ions removal from aqueous solutions and wastewaters. <i>Microporous and Mesoporous Materials</i> , 2017 , 250, 128-147	5.3	63
316	Application of silica/alumina oxides of different compositions for removal of C.I. Reactive Black 5 dye from wastewaters. <i>Adsorption Science and Technology</i> , 2017 , 35, 448-457	3.6	7
315	Behavior of water and methane bound to hydrophilic and hydrophobic nanosilicas and their mixture. <i>Chemical Physics Letters</i> , 2017 , 690, 25-30	2.5	11
314	Influence of tannin on aqueous layers at a surface of hydrophilic and hydrophobic nanosilicas. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 531, 9-17	5.1	3
313	Influence of hydrophobization of fumed oxides on interactions with polar and nonpolar adsorbates. <i>Applied Surface Science</i> , 2017 , 423, 855-868	6.7	23
312	Adsorption/desorption of explosives on Ni-, Co-, and NiCo-carbon composites: Application in solid phase extraction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 529, 950-958	5.1	15
311	Interactions of human serum albumin with doxorubicin in different media. <i>Chemical Physics</i> , 2017 , 483-484, 26-34	2.3	10
310	Synthesis and properties of zinc oxide photocatalyst by high-temperature processing of resorcinol-formaldehyde/zinc acetate mixture. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 334, 36-46	4.7	16
309	Infrared spectroscopy as a tool for textural and structural characterization of individual and complex fumed oxides. <i>Vibrational Spectroscopy</i> , 2017 , 88, 56-62	2.1	19
308	Properties of Water Bound in Hydrogels. <i>Gels</i> , 2017 , 3,	4.2	87
307	Interfacial phenomena at a surface of individual and complex fumed nanooxides. <i>Advances in Colloid and Interface Science</i> , 2016 , 235, 108-189	14.3	37
306	Structural Features of Carbons Produced Using Glucose, Lactose, and Saccharose. <i>Nanoscale Research Letters</i> , 2016 , 11, 508	5	12

305	Solid-phase extraction of explosive nitramines on macroreticular polymers modified by freezing with water or acetone. <i>Journal of Separation Science</i> , 2016 , 39, 1524-32	3.4	2
304	Silica-Supported Titania-Zirconia Nanocomposites: Structural and Morphological Characteristics in Different Media. <i>Nanoscale Research Letters</i> , 2016 , 11, 111	5	18
303	Structural and Morphological Features of Disperse Alumina Synthesized Using Aluminum Nitrate Nonahydrate. <i>Nanoscale Research Letters</i> , 2016 , 11, 153	5	20
302	Characteristics of surface and electrochemical properties of composites with fumed metal oxides and hydroxyapatite. <i>Adsorption</i> , 2016 , 22, 725-734	2.6	8
301	Nature and morphology of fumed oxides and features of interfacial phenomena. <i>Applied Surface Science</i> , 2016 , 366, 410-423	6.7	13
300	Influence of structural organization of silicas on interfacial phenomena. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 492, 230-241	5.1	13
299	Titania-coated nanosilica-cobalt ferrite composites: Structure and photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 319-320, 40-52	4.7	10
298	Morphology and molecular dynamics investigation of PDMS adsorbed on titania nanoparticles: Effects of polymer molecular weight. <i>European Polymer Journal</i> , 2016 , 74, 64-80	5.2	49
297	Quantum-chemical analysis of the processes at the surfaces of Diesel fuel droplets. <i>Fuel</i> , 2016 , 165, 405-412	4.1	8
296	Synthesis and structural features of resorcinol-formaldehyde resin chars containing nickel nanoparticles. <i>Applied Surface Science</i> , 2016 , 360, 722-730	6.7	8
295	Interfacial Phenomena: Effects of Confined Space and Structure of Adsorbents on the Behavior of Polar and Nonpolar Adsorbates at Low Temperatures. <i>Current Physical Chemistry</i> , 2016 , 5, 137-172	0.5	16
294	Comparison of the Poly(vinyl alcohol) Adsorption Behaviour on the Mixed Oxides with Different Surface Structure. <i>Medziagotyra</i> , 2016 , 22,	0.4	1
293	Multi-layer graphene oxide alone and in a composite with nanosilica: Preparation and interactions with polar and nonpolar adsorbates. <i>Applied Surface Science</i> , 2016 , 387, 736-749	6.7	3
292	Effects of Molecular Weight below the Entanglement Threshold on Interfacial Nanoparticles/Polymer Dynamics. <i>Macromolecules</i> , 2016 , 49, 9457-9473	5.5	66
291	Wettability of modified silica layers deposited on glass support activated by plasma. <i>Applied Surface Science</i> , 2015 , 353, 843-850	6.7	20
290	The effects of internal molecular dynamics on the evaporation/condensation of n-dodecane. <i>Theoretical Chemistry Accounts</i> , 2015 , 134, 1	1.9	8
289	Evaluation of adsorption and desorption steps in the solid-phase extraction of explosives using carbon/silica gel nanocomposites. <i>Journal of Separation Science</i> , 2015 , 38, 2488-95	3.4	7
288	Adsorptive removal of acid, reactive and direct dyes from aqueous solutions and wastewater using mixed silica-alumina oxide. <i>Powder Technology</i> , 2015 , 278, 306-315	5.2	83

287	Effects of strongly aggregated silica nanoparticles on interfacial behaviour of water bound to lactic acid bacteria. <i>RSC Advances</i> , 2015 , 5, 7734-7739	3.7	5
286	Adsorption, Electrokinetic and Stabilizing Properties of the Guar Gum/Surfactant/Alumina System. <i>Journal of Surfactants and Detergents</i> , 2015 , 18, 445-453	1.9	9
285	Evaporation of polar and nonpolar liquids from silica gels and fumed silica. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 474, 52-62	5.1	13
284	Effects of the surroundings and conformerisation of n-dodecane molecules on evaporation/condensation processes. <i>Journal of Chemical Physics</i> , 2015 , 142, 034502	3.9	13
283	Silica-supported ceria/zirconia and titania/zirconia nanocomposites: Structural characteristics and electrochemical properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 482, 631-638	5.1	9
282	Synthesis and characterization of carbon composites containing Fe, Co, Ni nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 122, 553-561	4.1	16
281	Unusual interfacial phenomena at a surface of fullerite and carbon nanotubes. <i>Chemical Physics</i> , 2015 , 459, 172-185	2.3	4
280	Effect of polyvinyl alcohol adsorption on the mixed alumina/silica/titania suspension stability. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 23, 265-272	6.3	17
279	Interfacial phenomena in core-shell nanocomposites of PDMS adsorbed onto low specific surface area fumed silica nanooxides: Effects of surface modification. <i>Polymer</i> , 2015 , 68, 158-167	3.9	38
278	Magneto-Sensitive Ni/C Adsorbents: Synthesis, Properties and Applications. <i>Adsorption Science and Technology</i> , 2015 , 33, 523-529	3.6	7
277	Influence of carbon deposits and subsequent silylation of silica gel on sorption efficiency of explosive nitramines. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 468, 76-86	5.1	8
276	Interfacial interactions and complex segmental dynamics in systems based on silica-polydimethylsiloxane core-shell nanoparticles: Dielectric and thermal study. <i>Polymer</i> , 2015 , 58, 9-21	3.9	32
275	Low-temperature high-pressure cryogelation of nanooxides. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 74, 45-54	2.3	6
274	Investigation of the polyvinyl alcohol stabilization mechanism and adsorption properties on the surface of ternary mixed nanooxide AST 50 (AlO-SiO-TiO). <i>Journal of Nanoparticle Research</i> , 2015 , 17, 12	2.3	41
273	Band-Gap Change and Photocatalytic Activity of Silica/Titania Composites Associated with Incorporation of CuO and NiO. <i>Himia, Fizika Ta Tehnologija Poverhni</i> , 2015 , 5, 421-437	0.4	
272	Morphological and Electronic Characteristics of Nanoalumina Alone and in High-Temperature (Fumed) and Low-Temperature (Mechanical) Mixtures with Nanosilica. <i>Himia, Fizika Ta Tehnologija Poverhni</i> , 2015 , 5, 136-144	0.4	
271	Modelling of Evaporation of Clusters and Nanodroplets of Organic Molecules Using Quantum Chemical and the Kinetic Gas Theory Methods. <i>Himia, Fizika Ta Tehnologija Poverhni</i> , 2015 , 6, 5-19	0.4	1
270	Synthesis and characterization of resorcinol-formaldehyde resin chars doped by zinc oxide. <i>Applied Surface Science</i> , 2014 , 303, 263-271	6.7	9

269	Composite materials: Textural characteristics. <i>Applied Surface Science</i> , 2014 , 307, 444-454	6.7	89
268	A study of the evaporation and condensation of n-alkane clusters and nanodroplets using quantum chemical methods. <i>Fluid Phase Equilibria</i> , 2014 , 366, 99-107	2.5	15
267	Comparison of stability properties of poly(acrylic acid) adsorbed on the surface of silica, alumina and mixed silica-alumina nanoparticles [Application of turbidimetry method. <i>Open Chemistry</i> , 2014 , 12, 476-479	1.6	15
266	Interfacial behavior of water bound to nitrocellulose containing residual nitric and sulfuric acids. <i>Open Chemistry</i> , 2014 , 12, 509-518	1.6	3
265	Effects of dissolved metal chlorides on the behavior of silica nanoparticles in aqueous media. <i>Open Chemistry</i> , 2014 , 12, 480-491	1.6	11
264	Comparison of adsorption affinity of polyacrylic acid for surfaces of mixed silica-alumina. <i>Colloid and Polymer Science</i> , 2014 , 292, 699-705	2.4	75
263	Structural features of fumed silica and alumina alone, blend powders and fumed binary systems. <i>Journal of Non-Crystalline Solids</i> , 2014 , 403, 30-37	3.9	10
262	Clusters of nonsolvent water in partially destroyed <i>Saccharomyces cerevisiae</i> yeast cells. <i>Biophysics (Russian Federation)</i> , 2014 , 59, 402-407	0.7	
261	Investigation of stabilization and destabilization possibilities of water alumina suspension in polyelectrolyte presence. <i>International Journal of Mineral Processing</i> , 2014 , 132, 34-42		9
260	Chitosan-nanosilica hybrid materials: Preparation and properties. <i>Applied Surface Science</i> , 2014 , 320, 563-569	6.7	26
259	Mixed bifunctional surface-modified silicas using tethered aminofunctional silane catalysts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 462, 1-8	5.1	13
258	Interfacial phenomena at a surface of partially silylated nanosilica. <i>Journal of Colloid and Interface Science</i> , 2014 , 434, 28-39	9.3	9
257	Interactions of poly(dimethylsiloxane) with nanosilica and silica gel upon cooling-heating. <i>Journal of Colloid and Interface Science</i> , 2014 , 426, 48-55	9.3	12
256	A multi-dimensional quasi-discrete model for the analysis of Diesel fuel droplet heating and evaporation. <i>Fuel</i> , 2014 , 129, 238-266	7.1	64
255	Dielectric properties and thermal destruction of poly(dimethylsiloxane)/Fe ₂ O ₃ /SiO ₂ nanocomposites. <i>Applied Surface Science</i> , 2014 , 305, 67-76	6.7	24
254	Cryogelation of individual and complex nanooxides under different conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 456, 261-272	5.1	11
253	Textural Characteristics of Resorcinol-Formaldehyde Resin and Temperature Behavior of Bound Water Affected by Co-Adsorbed Trifluoroacetic Acid or Pyridine in Weakly Polar Organic Media. <i>Adsorption Science and Technology</i> , 2014 , 32, 845-855	3.6	
252	Dielectric and thermal studies of segmental dynamics in silica/PDMS and silica/titania/PDMS nanocomposites. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	21

251	Hydrophilic nanocomposites based on polyurethane/poly(2-hydroxyethyl methacrylate) semi-IPNs and modified/unmodified nanosilica for biomedical applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 397-408	2.6	14
250	Structural and morphological features of crystalline nanotitania synthesized in different aqueous media. <i>Chemical Physics Letters</i> , 2013 , 583, 103-108	2.5	7
249	Structural features of ZnO/nanosilica composites. <i>Applied Surface Science</i> , 2013 , 276, 802-809	6.7	7
248	Interfacial behavior of polar, weakly polar, and nonpolar compounds bound to activated carbons. <i>Journal of Colloid and Interface Science</i> , 2013 , 404, 140-9	9.3	4
247	Interfacial behavior of water bound to zirconia/nanosilica with adsorbed poly(dimethylsiloxane). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 426, 47-54	5.1	9
246	Polyurethane/poly(2-hydroxyethyl methacrylate) semi-IPN/nanoxide composites. <i>RSC Advances</i> , 2013 , 3, 14560	3.7	17
245	High-pressure cryogelation of nanosilica and surface properties of cryosilicas. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 436, 618-632	5.1	13
244	Synthesis and properties of composites synthesized by deposition of TiO ₂ doped with SnO ₂ or NiO ₂ onto A-300 nanosilica. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2013 , 49, 541-547	0.9	5
243	Structural features of resorcinol-formaldehyde resin chars and interfacial behavior of water co-adsorbed with low-molecular weight organics. <i>Applied Surface Science</i> , 2013 , 283, 683-693	6.7	7
242	Stability of Colloidal Silica Modified by Macromolecular Polyacrylic Acid (PAA) [Application of Turbidimetry Method. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2013 , 50, 639-643	2.2	16
241	Interfacial behavior of silicone oils interacting with nanosilica and silica gels. <i>Journal of Colloid and Interface Science</i> , 2013 , 394, 467-74	9.3	16
240	Cryogels: morphological, structural and adsorption characterisation. <i>Advances in Colloid and Interface Science</i> , 2013 , 187-188, 1-46	14.3	198
239	Textural characteristics of model and natural bone tissues and interfacial behavior of bound water. <i>Journal of Colloid and Interface Science</i> , 2013 , 392, 446-462	9.3	5
238	Effect of nanosilica on characteristics of carbonizates of phenol-formaldehyde resin [Fe(acac) ₃ . <i>Applied Surface Science</i> , 2013 , 264, 707-712	6.7	6
237	Annihilation of the triplet excitons in the nanoporous glass matrices. <i>Journal of Luminescence</i> , 2013 , 136, 358-364	3.8	5
236	A quantum chemical study of the processes during the evaporation of real-life Diesel fuel droplets. <i>Fluid Phase Equilibria</i> , 2013 , 356, 146-156	2.5	19
235	Effect of solution pH on the stability of mixed silica -alumina suspension in the presence of polyacrylic acid (PAA) with different molecular weights. <i>Open Chemistry</i> , 2013 , 11, 101-110	1.6	13
234	Interactions of single and multi-layer graphene oxides with water, methane, organic solvents and HCl studied by ¹ H NMR. <i>Carbon</i> , 2013 , 57, 191-201	10.4	19

233	Confined space effects driving to heterogenization of solutions at the interfaces. <i>Adsorption</i> , 2013 , 19, 305-321	2.6	11
232	Interfacial behavior of n-decane bound to weakly hydrated silica gel and nanosilica over a broad temperature range. <i>Langmuir</i> , 2013 , 29, 4303-14	4	21
231	Single-Layer Graphenes Functionalized with Polyurea: Architectural Control and Biomolecule Reactivity. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11829-11836	3.8	7
230	Post-synthesis surface-modified silicas as adsorbents for heavy metal ion contaminants Cd(II), Cu(II), Cr(III), and Sr(II) in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2013 , 392, 57-64	9.3	26
229	Molecular-level understanding of the carbonisation of polysaccharides. <i>Chemistry - A European Journal</i> , 2013 , 19, 9351-7	4.8	30
228	Effect of polyacrylic acid (PAA) adsorption on stability of mixed alumina-silica oxide suspension. <i>Powder Technology</i> , 2013 , 233, 190-200	5.2	43
227	MODELING OF INTERFACIAL BEHAVIOR OF WATER AND ORGANICS. <i>Journal of Theoretical and Computational Chemistry</i> , 2013 , 12, 1350059	1.8	13
226	Hydrogen peroxide-water mixture bound to nanostructured silica. <i>Chemical Physics Letters</i> , 2012 , 531, 132-137	2.5	13
225	Hydrated phosphorus oxyacids alone and adsorbed on nanosilica. <i>Journal of Colloid and Interface Science</i> , 2012 , 368, 263-72	9.3	23
224	Carbon-mineral adsorbents with a diatomaceous earth/perlite matrix modified by carbon deposits. <i>Microporous and Mesoporous Materials</i> , 2012 , 156, 209-216	5.3	21
223	Composites with macroporous poly(vinyl alcohol) cryogels with attached activated carbon microparticles with controlled accessibility of a surface. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5936-44	9.5	19
222	A comparative study of air-dry and water swollen flax and cotton fibres. <i>RSC Advances</i> , 2012 , 2, 2868	3.7	10
221	Cottonised flax fibres vs. cotton fibres: structural, textural and adsorption characteristics. <i>RSC Advances</i> , 2012 , 2, 2032	3.7	22
220	Driving forces of conformational changes in single-layer graphene oxide. <i>ACS Nano</i> , 2012 , 6, 3967-73	16.7	97
219	Structural characteristics of mixed oxides MOx/SiO ₂ affecting photocatalytic decomposition of methylene blue. <i>Applied Surface Science</i> , 2012 , 258, 6288-6296	6.7	11
218	Role of dipole image forces in molecular adsorption. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	10
217	Activated carbons and carbon-containing poly(vinyl alcohol) cryogels: characterization, protein adsorption and possibility of myoglobin clearance. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 16267-78	2.6	22
216	Creation of 3-dimensional carbon nanostructures from UV irradiation of carbon dioxide at room temperature. <i>Journal of Supercritical Fluids</i> , 2012 , 72, 1-6	4.2	

215	Dynamics, thermal behaviour and elastic properties of thin films of poly(vinyl alcohol) nanocomposites. <i>RSC Advances</i> , 2012 , 2, 1424-1431	3.7	14
214	Thermal and dielectric studies of PEG/C/AST nanocomposites. <i>Journal of Applied Polymer Science</i> , 2012 , 128, n/a-n/a	2.9	3
213	Morphology and adsorption properties of chemically modified MWCNT probed by nitrogen, n-propane and water vapor. <i>Carbon</i> , 2012 , 50, 577-585	10.4	27
212	Comparative study of nanopores in activated carbons by HRTEM and adsorption methods. <i>Carbon</i> , 2012 , 50, 3146-3153	10.4	22
211	Porous structure and water state in cross-linked polymer and protein cryo-hydrogels. <i>Soft Matter</i> , 2011 , 7, 4276	3.6	63
210	Structural and hydrophobic/hydrophilic properties of nanosilica/zirconia alone and with adsorbed PDMS. <i>Applied Surface Science</i> , 2011 , 258, 270-277	6.7	20
209	The influence of pre-adsorbed water on adsorption of methane on fumed and nanoporous silicas. <i>Applied Surface Science</i> , 2011 , 258, 1306-1316	6.7	11
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43	Structure of Hydrogen Bonds and ¹ H NMR Spectra of Water at the Interface of Oxides. <i>Langmuir</i> , 1999 , 15, 6405-6415	4	68
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39	Influence of modification of fine silica by organosilicon compounds on particle-particle interaction in aqueous suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998 , 132, 241-249	5.1	22
38	Temperature-programmed desorption of water from fumed silica, silica/titania, and silica/alumina. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1998 , 172, 161-179		88
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33	Structure of Fumed Titania and Silica/Titania and Influence of the Nature of Surface Sites on Interaction with Water. <i>Journal of Colloid and Interface Science</i> , 1997 , 188, 39-57	9.3	54
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31	Water Adsorption at Pyrogenic Silica Surfaces Modified by Phosphorus Compounds. <i>Langmuir</i> , 1996 , 12, 3503-3510	4	12
30	Connection between Chemisorption Kinetics and Adsorption Equilibria of Organic Compounds on Oxide Surfaces. <i>Langmuir</i> , 1996 , 12, 115-124	4	11
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28	Dynamics of chemical bonds and local density of electron states at heterogeneous surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1995 , 101, 279-286	5.1	5
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