

Peter Kasak

List of Publications by Citations

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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.

146 papers	3,271 citations	31 h-index	51 g-index
165 ext. papers	4,004 ext. citations	5 avg, IF	5.55 L-index

#	Paper	IF	Citations
146	Molecular Fluorescence in Citric Acid-Based Carbon Dots. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 2014-2022	3.8	353
145	Electrochemical performance of TiCT MXene in aqueous media: towards ultrasensitive H ₂ O ₂ sensing. <i>Electrochimica Acta</i> , 2017 , 235, 471-479	6.7	151
144	Highly stable Ti ₃ C ₂ T _x (MXene)/Pt nanoparticles-modified glassy carbon electrode for H ₂ O ₂ and small molecules sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2018 , 263, 360-368	8.5	118
143	Label-free impedimetric aptasensor with antifouling surface chemistry: A prostate specific antigen case study. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 306-312	8.5	116
142	Chiral molecular tapes from novel tetra(thiafulvalene-crown-ether)-substituted phthalocyanine building blocks. <i>Chemical Communications</i> , 2005 , 1255-7	5.8	106
141	Molecular Engineering of Benzothiazolium Salts with Large Quadratic Hyperpolarizabilities: Can Auxiliary Electron-Withdrawing Groups Enhance Nonlinear Optical Responses?. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22289-22302	3.8	95
140	Aggregated Molecular Fluorophores in the Ammonothermal Synthesis of Carbon Dots. <i>Chemistry of Materials</i> , 2017 , 29, 10352-10361	9.6	85
139	A chiral phosphine-blefin rhodium complex as an efficient catalyst for the asymmetric conjugate addition. <i>Tetrahedron: Asymmetry</i> , 2006 , 17, 3084-3090		84
138	Highly negative homotropic allosteric binding of viologens in a double-cavity porphyrin. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1186-7	16.4	70
137	Electrochemical Impedance Spectroscopy Based Biosensors: Mechanistic Principles, Analytical Examples and Challenges towards Commercialization for Assays of Protein Cancer Biomarkers. <i>ChemElectroChem</i> , 2019 , 6, 989-1003	4.3	70
136	Ultrasensitive impedimetric lectin biosensors with efficient antifouling properties applied in glycoprofiling of human serum samples. <i>Analytical Chemistry</i> , 2013 , 85, 7324-32	7.8	69
135	Nanomaterial-based biosensors for detection of prostate specific antigen. <i>Mikrochimica Acta</i> , 2017 , 184, 3049-3067	5.8	67
134	Carbonization conditions influence the emission characteristics and the stability against photobleaching of nitrogen doped carbon dots. <i>Nanoscale</i> , 2017 , 9, 11730-11738	7.7	66
133	Switchable Materials Containing Polyzwitterion Moieties. <i>Polymers</i> , 2015 , 7, 2344-2370	4.5	54
132	Highly efficient sustainable photocatalytic Z-scheme hydrogen production from an Fe ₂ O ₃ engineered ZnCdS heterostructure. <i>Journal of Catalysis</i> , 2017 , 353, 81-88	7.3	51
131	Zwitterionic hydrogels crosslinked with novel zwitterionic crosslinkers: Synthesis and characterization. <i>Polymer</i> , 2011 , 52, 3011-3020	3.9	44
130	Glycoprofiling of cancer biomarkers: Label-free electrochemical lectin-based biosensors. <i>Open Chemistry</i> , 2015 , 13, 636-655	1.6	43

129	Highly Efficient Photocatalytic Z-Scheme Hydrogen Production over Oxygen-Deficient WO Nanorods supported ZnCdS Heterostructure. <i>Scientific Reports</i> , 2017 , 7, 6574	4.9	42
128	Development of a new LDL-based transport system for hydrophobic/amphiphilic drug delivery to cancer cells. <i>International Journal of Pharmaceutics</i> , 2012 , 436, 463-71	6.5	42
127	Aberrant sialylation of a prostate-specific antigen: Electrochemical label-free glycoprofiling in prostate cancer serum samples. <i>Analytica Chimica Acta</i> , 2016 , 934, 72-9	6.6	42
126	Quadrupolar benzobisthiazole-cored arylamines as highly efficient two-photon absorbing fluorophores. <i>Organic Letters</i> , 2014 , 16, 6358-61	6.2	41
125	Free-Radical Propagation Kinetics of N-Vinyl Formamide in Aqueous Solution Studied by PLPSEC. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 580-593	2.6	40
124	Interfacial Phenomenon and Nanostructural Enhancements in Palladium Loaded Lanthanum Hydroxide Nanorods for Heterogeneous Catalytic Applications. <i>Scientific Reports</i> , 2018 , 8, 4354	4.9	37
123	Nanotechnology in Glycomics: Applications in Diagnostics, Therapy, Imaging, and Separation Processes. <i>Medicinal Research Reviews</i> , 2017 , 37, 514-626	14.4	37
122	Kinetics and Modeling of Free-Radical Batch Polymerization of Nonionized Methacrylic Acid in Aqueous Solution. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 8197-8204	3.9	37
121	Stereoconservative Negishi arylation and alkynylation as an efficient approach to enantiopure 2,2Rdiarylated 1,1Rbinaphthyls. <i>Chemical Communications</i> , 2004 , 2606-7	5.8	37
120	Prostate-specific antigen glycoprofiling as diagnostic and prognostic biomarker of prostate cancer. <i>Interface Focus</i> , 2019 , 9, 20180077	3.9	36
119	SEC Analysis of Poly(Acrylic Acid) and Poly(Methacrylic Acid). <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 23-37	2.6	33
118	Nanoscale controlled architecture for development of ultrasensitive lectin biosensors applicable in glycomics. <i>Analytical Methods</i> , 2014 , 6, 4922-4931	3.2	32
117	Simple, Reversible, and Fast Modulation in Superwettability, Gradient, and Adsorption by Counterion Exchange on Self-Assembled Monolayer. <i>Langmuir</i> , 2016 , 32, 5491-9	4	32
116	Sensitive detection and glycoprofiling of a prostate specific antigen using impedimetric assays. <i>Analyst, The</i> , 2016 , 141, 1044-51	5	31
115	Designing dual phase sensing materials from polyaniline filled styreneIsopreneEtyrene composites. <i>Materials Chemistry and Physics</i> , 2014 , 147, 1029-1036	4.4	30
114	Tailoring Electrocatalytic Properties of Pt Nanoparticles Grown on Ti3C2TXMXene Surface. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H54-H62	3.9	29
113	Light-switchable polymer from cationic to zwitterionic form: synthesis, characterization, and interactions with DNA and bacterial cells. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 635-9	4.8	28
112	Photo-actuating materials based on elastomers and modified carbon nanotubes. <i>Journal of Nanophotonics</i> , 2012 , 6, 063522	1.1	27

111	Chiral branched mono phosphine auxiliaries, reversal of sense of asymmetric induction upon substitution. <i>Tetrahedron: Asymmetry</i> , 2005 , 16, 3416-3426		27
110	Nanocomposite photoactuators based on an ethylene vinyl acetate copolymer filled with carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2013 , 186, 701-710	8.5	26
109	Carboxybetaine Modified Interface for Electrochemical Glycoprofiling of Antibodies Isolated from Human Serum. <i>Langmuir</i> , 2015 , 31, 7148-57	4	26
108	Sweet characterisation of prostate specific antigen using electrochemical lectin-based immunosensor assay and MALDI TOF/TOF analysis: Focus on sialic acid. <i>Proteomics</i> , 2016 , 16, 3085-3095	4.8	25
107	Engineering and understanding of synergistic effects in the interfaces of rGO-CNTs/PtPd nanocomposite revealed fast electro-oxidation of methanol. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 832, 343-352	4.1	25
106	Ultrasensitive TiCT MXene/Chitosan Nanocomposite-Based Amperometric Biosensor for Detection of Potential Prostate Cancer Marker in Urine Samples. <i>Processes</i> , 2020 , 8, 580	2.9	23
105	Synergistic effect of interfacial phenomenon on enhancing catalytic performance of Pd loaded MnOx/CeO2 hetero-nanostructure for hydrogenation and electrochemical reactions. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10704-10712	13	21
104	2D MXenes as Perspective Immobilization Platforms for Design of Electrochemical Nanobiosensors. <i>Electroanalysis</i> , 2019 , 31, 1833-1844	3	21
103	Bentonite-decorated calix [4] arene: A new, promising hybrid material for heavy-metal removal. <i>Applied Clay Science</i> , 2018 , 161, 15-22	5.2	21
102	Advanced antifouling zwitterionic layer based impedimetric HER2 biosensing in human serum: Glycoprofiling as a novel approach for breast cancer diagnostics. <i>Sensors and Actuators B: Chemical</i> , 2018 , 272, 626-633	8.5	21
101	Sulfobetaines Meet Carboxybetaines: Modulation of Thermo- and Ion-Responsivity, Water Structure, Mechanical Properties, and Cell Adhesion. <i>Langmuir</i> , 2019 , 35, 1391-1403	4	21
100	Light-controllable viscoelastic properties of a photolabile carboxybetaine ester-based polymer with mucus and cellulose sulfate. <i>Emergent Materials</i> , 2018 , 1, 35-45	3.5	21
99	Glycomics of prostate cancer: updates. <i>Expert Review of Proteomics</i> , 2019 , 16, 65-76	4.2	20
98	Graphene oxide modified by betaine moieties for improvement of electrorheological performance. <i>RSC Advances</i> , 2015 , 5, 57820-57827	3.7	19
97	Glycoprofiling as a novel tool in serological assays of systemic sclerosis: a comparative study with three bioanalytical methods. <i>Analytica Chimica Acta</i> , 2015 , 853, 555-562	6.6	19
96	Enhanced Z-scheme visible light photocatalytic hydrogen production over Bi2O3/CZS heterostructure. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 4256-4264	6.7	19
95	Synergistic effect of Co-Ni co-bridging with MoS nanosheets for enhanced electrocatalytic hydrogen evolution reactions.. <i>RSC Advances</i> , 2018 , 8, 3374-3380	3.7	19
94	Study on the synthesis of nonracemic C2-symmetric 1,1'-binaphthyl-2,2'-diyl bridged ferrocene. Stereochemical result of the cross-coupling reactions controlled by Pd(II) or Pd(IV) complex intermediacy. <i>Journal of Organometallic Chemistry</i> , 2001 , 637-639, 318-326	2.3	19

93	Enhanced and durable electrocatalytic performance of thin layer PtRu bimetallic alloys on Pd-nanocubes for methanol oxidation reactions. <i>Catalysis Science and Technology</i> , 2017 , 7, 3283-3290	5.5	18
92	Chemically Synthesized Carbon Nanorods with Dual Polarized Emission. <i>ACS Nano</i> , 2019 , 13, 12024-12031	6.7	17
91	Mixed Zwitterion-Based Self-Assembled Monolayer Interface for Impedimetric Glycomic Analyses of Human IgG Samples in an Array Format. <i>Langmuir</i> , 2016 , 32, 7070-8	4	17
90	Polysulfobetaine films prepared by electrografting technique for reduction of biofouling on electroconductive surfaces. <i>Applied Surface Science</i> , 2011 , 257, 10795-10801	6.7	17
89	Advanced impedimetric biosensor configuration and assay protocol for glycoprofiling of a prostate oncomarker using Au nanoshells with a magnetic core. <i>Biosensors and Bioelectronics</i> , 2019 , 131, 24-29	11.8	16
88	Graphene as a signal amplifier for preparation of ultrasensitive electrochemical biosensors. <i>Chemical Papers</i> , 2015 , 69, 112-133	1.9	16
87	Electrochemical Nanobiosensors for Detection of Breast Cancer Biomarkers. <i>Sensors</i> , 2020 , 20,	3.8	16
86	Glycomics meets artificial intelligence - Potential of glycan analysis for identification of seropositive and seronegative rheumatoid arthritis patients revealed. <i>Clinica Chimica Acta</i> , 2018 , 481, 49-55	6.2	15
85	Dual cationic modified high Ni-low co layered oxide cathode with a heteroepitaxial interface for high energy-density lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 416, 129118	14.7	15
84	Suzuki arylation at positions 2 and 2' of 1,1'-binaphthyls: stereochemical result depending on the sense of polarity of substrates. <i>Tetrahedron Letters</i> , 2004 , 45, 791-794	2	14
83	Carbonyl iron coated with a sulfobetaine moiety as a biocompatible system and the magnetorheological performance of its silicone oil suspensions. <i>RSC Advances</i> , 2016 , 6, 32823-32830	3.7	14
82	Emerging clay-aryl-gold nanohybrids for efficient electrocatalytic proton reduction. <i>Energy Conversion and Management</i> , 2018 , 168, 170-177	10.6	14
81	Exosomes as a Source of Cancer Biomarkers: Advances in Electrochemical Biosensing of Exosomes. <i>ChemElectroChem</i> , 2020 , 7, 1956-1973	4.3	13
80	Eco-Friendly Electromagnetic Interference Shielding Materials from Flexible Reduced Graphene Oxide Filled Polycaprolactone/Polyaniline Nanocomposites. <i>Polymer-Plastics Technology and Engineering</i> , 2016 , 55, 920-928		13
79	Modulation of wettability, gradient and adhesion on self-assembled monolayer by counterion exchange and pH. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 511-521	9.3	13
78	Enhanced Performance of Oxygen-Functionalized Multiwalled Carbon Nanotubes as Support for Pt and PtRu Bimetallic Catalysts for Methanol Electrooxidation. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5487-5496	6.1	12
77	Elastomeric photo-actuators and their investigation by confocal laser scanning microscopy. <i>Smart Materials and Structures</i> , 2013 , 22, 104001	3.4	12
76	Study on the electronic effects on stereoconservativity of Suzuki coupling in chiral groove of binaphthyl. <i>Journal of Organometallic Chemistry</i> , 2007 , 692, 5279-5284	2.3	11

75	Glycan Nanobiosensors. <i>Nanomaterials</i> , 2020 , 10,	5.4	11
74	Accelerated Weathering Effects on Poly(3-hydroxybutyrate--3-hydroxyvalerate) (PHBV) and PHBV/TiO Nanocomposites. <i>Polymers</i> , 2020 , 12,	4.5	11
73	Mussel-mimicking sulfobetaine-based copolymer with metal tunable gelation, self-healing and antibacterial capability. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 193-204	5.9	11
72	Propagation rate coefficient for sulfobetaine monomers by PLPSEC. <i>Polymer</i> , 2016 , 87, 38-49	3.9	10
71	Solubilization of poorly soluble photosensitizer hypericin by polymeric micelles and polyethylene glycol. <i>General Physiology and Biophysics</i> , 2013 , 32, 201-8	2.1	10
70	A chiroptical binaphthopyran switch: amplified CD response in a polystyrene film. <i>New Journal of Chemistry</i> , 2010 , 34, 1109	3.6	10
69	Remarkable differences in the voltammetric response towards hydrogen peroxide, oxygen and Ru(NH) of electrode interfaces modified with HF or LiF-HCl etched TiCT MXene. <i>Mikrochimica Acta</i> , 2019 , 187, 52	5.8	10
68	A precious-metal-free Fe-intercalated carbon nitride porous-network with enhanced activity for the oxygen reduction reaction and methanol-tolerant oxygen reduction reaction. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5050-5060	5.8	10
67	Antimicrobial modification of PLA scaffolds with ascorbic and fumaric acids via plasma treatment. <i>Surface and Coatings Technology</i> , 2020 , 400, 126216	4.4	10
66	Photoimmobilization of zwitterionic polymers on surfaces to reduce cell adhesion. <i>Journal of Colloid and Interface Science</i> , 2017 , 500, 294-303	9.3	9
65	Immobilization of concanavalin A lectin on a reduced graphene oxide-thionine surface by glutaraldehyde crosslinking for the construction of an impedimetric biosensor. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 794, 156-163	4.1	9
64	Polyzwitterionic Hydrogels in Engines Based on the Antipolyelectrolyte Effect and Driven by the Salinity Gradient. <i>Environmental Science & Technology</i> , 2019 , 53, 9260-9268	10.3	9
63	Elaboration of a novel effective approach to enantiopure functionalised 2,2'-dialkyl-1,1'-binaphthyls by stereoconservative cross-couplings at positions 2 and 2'. <i>Tetrahedron Letters</i> , 2004 , 45, 5279-5282	2	9
62	A Graphene-Based Glycan Biosensor for Electrochemical Label-Free Detection of a Tumor-Associated Antibody. <i>Sensors</i> , 2019 , 19,	3.8	9
61	The influence of thermal treatment conditions (solvothral versus microwave) and solvent polarity on the morphology and emission of phloroglucinol-based nitrogen-doped carbon dots. <i>Nanoscale</i> , 2021 , 13, 3070-3078	7.7	9
60	The interactions of probes based on substituted pyrene derivatives in polymer matrices; spectral study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015 , 307-308, 79-87	4.7	8
59	Binding energy, structural, and dielectric properties of thin film of poly(aniline-co-m-fluoroaniline). <i>Ionics</i> , 2018 , 24, 3249-3257	2.7	8
58	Potential 1,1'-binaphthyl NLO-phores with extended conjugation between positions 2 and 6, and 2' and 6'. <i>Tetrahedron Letters</i> , 2007 , 48, 8869-8873	2	8

57	Novel Route to Enantiopure 2,2RDiaryl-1,1Rbinaphthalenes by Stereoconservative Suzuki Arylation at Positions 2 and 2R <i>Collection of Czechoslovak Chemical Communications</i> , 2004 , 69, 1517-1536		8
56	Electrochemical Investigation of Interfacial Properties of TiCT MXene Modified by Aryldiazonium Betaine Derivatives. <i>Frontiers in Chemistry</i> , 2020 , 8, 553	5	8
55	An updated review on boron removal from water through adsorption processes. <i>Emergent Materials</i> , 1	3.5	8
54	A polysulfobetaine hydrogel for immobilization of a glucose-binding protein. <i>RSC Advances</i> , 2016 , 6, 83899-83900	3.7	8
53	Challenges for impedimetric affinity sensors targeting protein detection. <i>Current Opinion in Electrochemistry</i> , 2021 , 28, 100717	7.2	8
52	Photodynamic effect of hypericin after topical application in the ex ovo quail chorioallantoic membrane model. <i>Planta Medica</i> , 2014 , 80, 56-62	3.1	7
51	Fluoride anion sensing using colorimetric reagents containing binaphthyl moiety and urea binding site. <i>Chemical Papers</i> , 2009 , 63,	1.9	7
50	Synthesis and characterization of Au nanoshells with a magnetic core and betaine derivatives. <i>MethodsX</i> , 2019 , 6, 1999-2012	1.9	6
49	Antibodies against aberrant glycans as cancer biomarkers. <i>Expert Review of Molecular Diagnostics</i> , 2019 , 19, 1057-1068	3.8	6
48	Electrochemical and X-ray photoelectron spectroscopic investigations of conductive polymers. <i>Ionics</i> , 2020 , 26, 831-838	2.7	6
47	pH-Switchable Interaction of a Carboxybetaine Ester-Based SAM with DNA and Gold Nanoparticles. <i>Langmuir</i> , 2017 , 33, 6657-6666	4	5
46	Carbon nitride embedded MnO ₂ nanospheres decorated with low-content Pt nanoparticles as highly efficient and durable electrode material for solid state supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 801, 84-91	4.1	5
45	An Expedient Synthesis of Dialkylphosphane-Borane Complexes from Sodium Phosphide, and Their Alkylation under Phase-Transfer Conditions. <i>Synthesis</i> , 2007 , 2007, 2987-2994	2.9	5
44	Stereoconservative Cyanation of [1,1Rbinaphthalene]-2,2Rdielectrophiles. An Alternative Approach to Homochiral C ₂ -Symmetric [1,1Rbinaphthalene]-2,2Rdicarbonitrile and Its Transformations. <i>Collection of Czechoslovak Chemical Communications</i> , 2000 , 65, 729-740		5
43	TiCT MXene-Based Light-Responsive Hydrogel Composite for Bendable Bilayer Photoactuator. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
42	Anisotropy in CNT composite fabricated by combining directional freezing and gamma irradiation of acrylic acid. <i>Materials and Design</i> , 2016 , 97, 300-306	8.1	5
41	Ultra-low Pt-decorated NiCu bimetallic alloys nanoparticles supported on reduced graphene oxide for electro-oxidation of methanol. <i>MRS Communications</i> , 2018 , 8, 1050-1057	2.7	4
40	(R,R,R)-Tris(2-hydroxy-1-methylethyl)- and (S,S,S)-tris(2-hydroxy-2-methylethyl)phosphine: water-soluble chiral trialkylphosphines with C ₃ -symmetry. <i>Tetrahedron Letters</i> , 2007 , 48, 5665-5668	2	4

39	Novel Prostate Cancer Biomarkers: Aetiology, Clinical Performance and Sensing Applications. <i>Chemosensors</i> , 2021 , 9, 205	4	4
38	Photochemical grafting of polysulfobetaine onto polyethylene and polystyrene surfaces and investigation of long-term stability of the polysulfobetaine layer in seawater. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 1930-1938	3.2	3
37	Binary cobalt-iron oxides magnetic nanocomposites embedded porous carbon lawn with inherent N doping as promising electrode material for supercapacitors and Li-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 848, 113344	4.1	3
36	Quantitative analysis of energy transfer between fluorescent proteins in CFP-GBP-YFP and its response to Ca ²⁺ . <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 17852-63	3.6	3
35	Enhancement of visible light-driven hydrogen production over zinc cadmium sulfide nanoparticles anchored on BiVO ₄ nanorods. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 8327-8337	6.7	3
34	Fabrication of flexible electrically conductive polymer-based micropatterns using plasma discharge. <i>Sensors and Actuators A: Physical</i> , 2020 , 301, 111727	3.9	3
33	Crystal Growth, Single Crystal Structure, and Biological Activity of Thiazolo-Pyridine Dicarboxylic Acid Derivatives. <i>ACS Omega</i> , 2020 , 5, 27756-27765	3.9	3
32	Nicotinamide-based supragelator self-assembling via asymmetric hydrogen bonding NH ⁺ OC and H ⁺ Br pattern for reusable, moldable and self-healable nontoxic fuel gels. <i>Journal of Colloid and Interface Science</i> , 2021 , 603, 182-190	9.3	3
31	Analysis of serum glycome by lectin microarrays for prostate cancer patients - a search for aberrant glycoforms. <i>Glycoconjugate Journal</i> , 2020 , 37, 703-711	3	2
30	A bioconjugated MoS ₂ based nanoplatfrom with increased binding efficiency to cancer cells. <i>Biomaterials Science</i> , 2020 , 8, 1973-1980	7.4	2
29	Identification of Molecular Fluorophore as a Component of Carbon Dots able to Induce Gelation in a Fluorescent Multivalent-Metal-Ion-Free Alginate Hydrogel. <i>Scientific Reports</i> , 2019 , 9, 15080	4.9	2
28	Stereostructure and thermodynamic stability of atropisomers of ortho-substituted 2,2'-diaryl-1,1'-binaphthalenes. <i>Tetrahedron: Asymmetry</i> , 2013 , 24, 1303-1311		2
27	Biosensor for calcium based on a hydrogel optical waveguide with integrated sensor proteins 2009 ,		2
26	Chiral Binaphthalenes Bearing Two Pyridine Ligands Attached Via Acetylene Spacers. Synthesis and Coordination Study. <i>Collection of Czechoslovak Chemical Communications</i> , 2007 , 72, 1139-1157		2
25	Glycan signatures for the identification of cisplatin-resistant testicular cancer cell lines: Specific glycoprofiling of human chorionic gonadotropin (hCG).. <i>Cancer Medicine</i> , 2022 ,	4.8	2
24	Photochemical transformation of diketone dopants in polyester matrices: Effect of dopants concentration and polyester structure on changes in molecular characteristics and hydrolysis of the matrices. <i>Polymer Testing</i> , 2020 , 91, 106821	4.5	2
23	Effect of poly(ε-caprolactone) and titanium (IV) dioxide content on the UV and hydrolytic degradation of poly(lactic acid)/poly(ε-caprolactone) blends. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51266	2.9	2
22	Sulfobetaine-based polydisulfides with tunable upper critical solution temperature (UCST) in water alcohols mixture, depolymerization kinetics and surface wettability. <i>Journal of Colloid and Interface Science</i> , 2021 , 588, 196-208	9.3	2

21	The Separation of Emulsified Water/Oil Mixtures through Adsorption on Plasma-Treated Polyethylene Powder. <i>Materials</i> , 2021 , 14,	3.5	2
20	Tunable properties based on regioselectivity of 1,2,3-triazole units in axially chiral 2,2'-linked 1,1'-binaphthyl-based copolymers for ions and acid responsiveness. <i>European Polymer Journal</i> , 2018 , 108, 191-198	5.2	1
19	Glycan Analysis as Biomarkers for Testicular Cancer. <i>Diagnostics</i> , 2019 , 9,	3.8	1
18	Photoactuators on the base of polymeric elastomers and multiwall carbon nanotubes 2011 ,		1
17	Superior Non-Invasive Glucose Sensor Using Bimetallic CuNi Nanospecies Coated Mesoporous Carbon. <i>Biosensors</i> , 2021 , 11,	5.9	1
16	Light-Responsive Hybrids Based on Carbon Nanotubes with Covalently Attached PHEMA-g-PCL Brushes. <i>Macromolecules</i> , 2021 , 54, 2412-2426	5.5	1
15	Interfaces study of all-polysaccharide composite films. <i>Chemical Papers</i> , 2018 , 72, 711-718	1.9	1
14	Toward an Accurate Spectrophotometric Evaluation of the Efficiencies of Photocatalysts in Processes Involving Their Separation Using Nylon Membranes. <i>Catalysts</i> , 2018 , 8, 576	4	1
13	Towards the higher solubility and thermal stability of poly(aniline-co-m-bromoaniline). <i>Ionics</i> , 2018 , 24, 3837-3844	2.7	1
12	Colorimetry-Based Detection of Nitric Oxide from Exhaled Breath for Quantification of Oxidative Stress in Human Body. <i>Healthcare (Switzerland)</i> , 2021 , 9,	3.4	1
11	Identification of Whole-Serum Glycobiomarkers for Colorectal Carcinoma Using Reverse-Phase Lectin Microarray.. <i>Frontiers in Oncology</i> , 2021 , 11, 735338	5.3	1
10	Synthesis, Oxidation and Photophysical Properties of Novel Derivatives of Acyclic Aromatic Amines. <i>Collection of Czechoslovak Chemical Communications</i> , 2007 , 72, 1255-1268		0
9	Development and Fabrication of Carbon Nanotube (CNT)/CuO Nanocomposite for Volatile Organic Compounds (VOCs) Gas Sensor Application. <i>Macromolecular Symposia</i> , 2021 , 400, 2100202	0.8	0
8	Amplified suspension magnetic bead-based assay for sensitive detection of anti-glycan antibodies as potential cancer biomarkers.. <i>Analytica Chimica Acta</i> , 2022 , 1195, 339444	6.6	0
7	Breast cancer glycan biomarkers: their link to tumour cell metabolism and their perspectives in clinical practice. <i>Expert Review of Proteomics</i> , 2021 , 1-30	4.2	0
6	Influence of direct electric field on PMCG-alginate-based microcapsule. <i>Emergent Materials</i> , 2021 , 4, 7693779	3.7	0
5	2-[1-(Benzylphenylphosphinothioyl)-2-phenylethyl]-2'-[(E)-2-chlorovinyl]-1,1'-binaphthyl. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005 , 61, o4093-o4095		
4	Nanostructural synergism as MnNC channels in manganese (IV) oxide and fluffy g-CN layered composite with exceptional catalytic capabilities.. <i>Journal of Colloid and Interface Science</i> , 2021 , 610, 258-270	9.3	

- 3 Self-Assembled Monolayers for Surface Modification **2019**, 217-255
- 2 Elastomeric Actuators Based on Ethylene-Vinyl Acetate and Carbon Nanotubes **2014**, 1-14
- 1 Exosomes as a Source of Cancer Biomarkers: Advances in Electrochemical Biosensing of Exosomes.
ChemElectroChem, **2020**, 7, 1955-1955 4-3