Peter Kasak

List of Publications by Year in Descending Order

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	Enhancement of visible light-driven hydrogen production over zinc cadmium sulfide nanoparticles anchored on BiVO4 nanorods. *International Journal of Hydrogen Energy*, **2022**, 47, 8327-8337	6.7	3
145	Glycan signatures for the identification of cisplatin-resistant testicular cancer cell lines: Specific glycoprofiling of human chorionic gonadotropin (hCG).. *Cancer Medicine*, **2022**,	4.8	2
144	Amplified suspension magnetic bead-based assay for sensitive detection of anti-glycan antibodies as potential cancer biomarkers.. *Analytica Chimica Acta*, **2022**, 1195, 339444	6.6	0
143	Development and Fabrication of Carbon Nanotube (CNT)/CuO Nanocomposite for Volatile Organic Compounds (VOCs) Gas Sensor Application. *Macromolecular Symposia*, **2021**, 400, 2100202	0.8	0
142	Superior Non-Invasive Glucose Sensor Using Bimetallic CuNi Nanospecies Coated Mesoporous Carbon. *Biosensors*, **2021**, 11,	5.9	1
141	Nanostructural synergism as MnNC channels in manganese (IV) oxide and fluffy g-CN layered composite with exceptional catalytic capabilities.. *Journal of Colloid and Interface Science*, **2021**, 610, 258-270	9.3	
140	Breast cancer glycan biomarkers: their link to tumour cell metabolism and their perspectives in clinical practice. *Expert Review of Proteomics*, **2021**, 1-30	4.2	0
139	Influence of direct electric field on PMCG-alginate-based microcapsule. *Emergent Materials*, **2021**, 4, 769-779	3.7	0
138	Effect of poly(Ɛ-caprolactone) and titanium (IV) dioxide content on the UV and hydrolytic degradation of poly(lactic acid)/poly(Ɛ-caprolactone) blends. *Journal of Applied Polymer Science*, **2021**, 138, 51266	2.9	2
137	Dual cationic modified high Ni-low co layered oxide cathode with a heteroepitaxial interface for high energy-density lithium-ion batteries. *Chemical Engineering Journal*, **2021**, 416, 129118	14.7	15
136	Sulfobetaine-based polydisulfides with tunable upper critical solution temperature (UCST) in water alcohols mixture, depolymerization kinetics and surface wettability. *Journal of Colloid and Interface Science*, **2021**, 588, 196-208	9.3	2
135	Light-Responsive Hybrids Based on Carbon Nanotubes with Covalently Attached PHEMA-g-PCL Brushes. *Macromolecules*, **2021**, 54, 2412-2426	5.5	1
134	The Separation of Emulsified Water/Oil Mixtures through Adsorption on Plasma-Treated Polyethylene Powder. *Materials*, **2021**, 14,	3.5	2
133	Novel Prostate Cancer Biomarkers: Aetiology, Clinical Performance and Sensing Applications. *Chemosensors*, **2021**, 9, 205	4	4
132	Colorimetry-Based Detection of Nitric Oxide from Exhaled Breath for Quantification of Oxidative Stress in Human Body. *Healthcare (Switzerland)*, **2021**, 9,	3.4	1
131	Challenges for impedimetric affinity sensors targeting protein□detection. *Current Opinion in Electrochemistry*, **2021**, 28, 100717	7.2	8
130	Nicotinamide-based supergelator self-assembling via asymmetric hydrogen bonding NH?OC and H?Br pattern for reusable, moldable and self-healable nontoxic fuel gels. *Journal of Colloid and Interface Science*, **2021**, 603, 182-190	9.3	3

129	The influence of thermal treatment conditions (solvothermal versus microwave) and solvent polarity on the morphology and emission of phloroglucinol-based nitrogen-doped carbon dots. *Nanoscale*, **2021**, 13, 3070-3078	7.7	9
128	Identification of Whole-Serum Glycobiomarkers for Colorectal Carcinoma Using Reverse-Phase Lectin Microarray.. *Frontiers in Oncology*, **2021**, 11, 735338	5.3	1
127	Analysis of serum glycome by lectin microarrays for prostate cancer patients - a search for aberrant glycoforms. *Glycoconjugate Journal*, **2020**, 37, 703-711	3	2
126	Ultrasensitive TiCT MXene/Chitosan Nanocomposite-Based Amperometric Biosensor for Detection of Potential Prostate Cancer Marker in Urine Samples. *Processes*, **2020**, 8, 580	2.9	23
125	Enhanced Performance of Oxygen-Functionalized Multiwalled Carbon Nanotubes as Support for Pt and PtRu Bimetallic Catalysts for Methanol Electrooxidation. *ACS Applied Energy Materials*, **2020**, 3, 5487-5496	6.1	12
124	Exosomes as a Source of Cancer Biomarkers: Advances in Electrochemical Biosensing of Exosomes. *ChemElectroChem*, **2020**, 7, 1956-1973	4.3	13
123	A bioconjugated MoS based nanoplatform with increased binding efficiency to cancer cells. *Biomaterials Science*, **2020**, 8, 1973-1980	7.4	2
122	Electrochemical and X-ray photoelectron spectroscopic investigations of conductive polymers. *Ionics*, **2020**, 26, 831-838	2.7	6
121	Fabrication of flexible electrically conductive polymer-based micropatterns using plasma discharge. *Sensors and Actuators A: Physical*, **2020**, 301, 111727	3.9	3
120	TiCT MXene-Based Light-Responsive Hydrogel Composite for Bendable Bilayer Photoactuator. *Nanomaterials*, **2020**, 10,	5.4	5
119	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. *Polymer Testing*, **2020**, 91, 106821	4.5	2
118	Crystal Growth, Single Crystal Structure, and Biological Activity of Thiazolo-Pyridine Dicarboxylic Acid Derivatives. *ACS Omega*, **2020**, 5, 27756-27765	3.9	3
117	A precious-metal-free Fe-intercalated carbon nitride porous-network with enhanced activity for the oxygen reduction reaction and methanol-tolerant oxygen reduction reaction. *Sustainable Energy and Fuels*, **2020**, 4, 5050-5060	5.8	10
116	Antimicrobial modification of PLA scaffolds with ascorbic and fumaric acids via plasma treatment. *Surface and Coatings Technology*, **2020**, 400, 126216	4.4	10
115	Electrochemical Nanobiosensors for Detection of Breast Cancer Biomarkers. *Sensors*, **2020**, 20,	3.8	16
114	Electrochemical Investigation of Interfacial Properties of TiCT MXene Modified by Aryldiazonium Betaine Derivatives. *Frontiers in Chemistry*, **2020**, 8, 553	5	8
113	Glycan Nanobiosensors. *Nanomaterials*, **2020**, 10,	5.4	11
112	Accelerated Weathering Effects on Poly(3-hydroxybutyrate--3-hydroxyvalerate) (PHBV) and PHBV/TiO Nanocomposites. *Polymers*, **2020**, 12,	4.5	11

111	Mussel-mimicking sulfobetaine-based copolymer with metal tunable gelation, self-healing and antibacterial capability. *Arabian Journal of Chemistry*, **2020**, 13, 193-204	5.9	11
110	Exosomes as a Source of Cancer Biomarkers: Advances in Electrochemical Biosensing of Exosomes. *ChemElectroChem*, **2020**, 7, 1955-1955	4.3	
109	Synthesis and characterization of Au nanoshells with a magnetic core and betaine derivatives. *MethodsX*, **2019**, 6, 1999-2012	1.9	6
108	Chemically Synthesized Carbon Nanorods with Dual Polarized Emission. *ACS Nano*, **2019**, 13, 12024-12031	16.7	17
107	Tailoring Electrocatalytic Properties of Pt Nanoparticles Grown on Ti3C2TXMXene Surface. *Journal of the Electrochemical Society*, **2019**, 166, H54-H62	3.9	29
106	Advanced impedimetric biosensor configuration and assay protocol for glycoprofiling of a prostate oncomarker using Au nanoshells with a magnetic core. *Biosensors and Bioelectronics*, **2019**, 131, 24-29	11.8	16
105	Polyzwitterionic Hydrogels in Engines Based on the Antipolyelectrolyte Effect and Driven by the Salinity Gradient. *Environmental Science & Technology*, **2019**, 53, 9260-9268	10.3	9
104	2D MXenes as Perspective Immobilization Platforms for Design of Electrochemical Nanobiosensors. *Electroanalysis*, **2019**, 31, 1833-1844	3	21
103	Prostate-specific antigen glycoprofiling as diagnostic and prognostic biomarker of prostate cancer. *Interface Focus*, **2019**, 9, 20180077	3.9	36
102	Binary cobalt-iron oxides magnetic nanocomposites embedded porous carbon lawn with inherent N doping as promising electrode material for supercapacitors and Li-ion batteries. *Journal of Electroanalytical Chemistry*, **2019**, 848, 113344	4.1	3
101	Identification of Molecular Fluorophore as a Component of Carbon Dots able to Induce Gelation in a Fluorescent Multivalent-Metal-Ion-Free Alginate Hydrogel. *Scientific Reports*, **2019**, 9, 15080	4.9	2
100	Antibodies against aberrant glycans as cancer biomarkers. *Expert Review of Molecular Diagnostics*, **2019**, 19, 1057-1068	3.8	6
99	Glycan Analysis as Biomarkers for Testicular Cancer. *Diagnostics*, **2019**, 9,	3.8	1
98	Self-Assembled Monolayers for Surface Modification **2019**, 217-255		
97	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. *Mikrochimica Acta*, **2019**, 187, 52	5.8	10
96	A Graphene-Based Glycan Biosensor for Electrochemical Label-Free Detection of a Tumor-Associated Antibody. *Sensors*, **2019**, 19,	3.8	9
95	Electrochemical Impedance Spectroscopy Based Biosensors: Mechanistic Principles, Analytical Examples and Challenges towards Commercialization for Assays of Protein Cancer Biomarkers. *ChemElectroChem*, **2019**, 6, 989-1003	4.3	70
94	Sulfobetaines Meet Carboxybetaines: Modulation of Thermo- and Ion-Responsivity, Water Structure, Mechanical Properties, and Cell Adhesion. *Langmuir*, **2019**, 35, 1391-1403	4	21

93	Glycomics of prostate cancer: updates. *Expert Review of Proteomics*, **2019**, 16, 65-76	4.2	20
92	Engineering and understanding of synergistic effects in the interfaces of rGO-CNTs/PtPd nanocomposite revealed fast electro-oxidation of methanol. *Journal of Electroanalytical Chemistry*, **2019**, 832, 343-352	4.1	25
91	Highly stable Ti3C2Tx (MXene)/Pt nanoparticles-modified glassy carbon electrode for H2O2 and small molecules sensing applications. *Sensors and Actuators B: Chemical*, **2018**, 263, 360-368	8.5	118
90	Bentonite-decorated calix [4] arene: A new, promising hybrid material for heavy-metal removal. *Applied Clay Science*, **2018**, 161, 15-22	5.2	21
89	Photochemical grafting of polysulfobetaine onto polyethylene and polystyrene surfaces and investigation of long-term stability of the polysulfobetaine layer in seawater. *Polymers for Advanced Technologies*, **2018**, 29, 1930-1938	3.2	3
88	Binding energy, structural, and dielectric properties of thin film of poly(aniline-co-m-fluoroaniline). *Ionics*, **2018**, 24, 3249-3257	2.7	8
87	Enhanced Z-scheme visible light photocatalytic hydrogen production over □Bi2O3/CZS heterostructure. *International Journal of Hydrogen Energy*, **2018**, 43, 4256-4264	6.7	19
86	Synergistic effect of Co-Ni co-bridging with MoS nanosheets for enhanced electrocatalytic hydrogen evolution reactions.. *RSC Advances*, **2018**, 8, 3374-3380	3.7	19
85	Glycomics meets artificial intelligence - Potential of glycan analysis for identification of seropositive and seronegative rheumatoid arthritis patients revealed. *Clinica Chimica Acta*, **2018**, 481, 49-55	6.2	15
84	Interfacial Phenomenon and Nanostructural Enhancements in Palladium Loaded Lanthanum Hydroxide Nanorods for Heterogeneous Catalytic Applications. *Scientific Reports*, **2018**, 8, 4354	4.9	37
83	Ultra-low Pt-decorated NiCu bimetallic alloys nanoparticles supported on reduced graphene oxide for electro-oxidation of methanol. *MRS Communications*, **2018**, 8, 1050-1057	2.7	4
82	Advanced antifouling zwitterionic layer based impedimetric HER2 biosensing in human serum: Glycoprofiling as a novel approach for breast cancer diagnostics. *Sensors and Actuators B: Chemical*, **2018**, 272, 626-633	8.5	21
81	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. *European Polymer Journal*, **2018**, 108, 191-198	5.2	1
80	Modulation of wettability, gradient and adhesion on self-assembled monolayer by counterion exchange and pH. *Journal of Colloid and Interface Science*, **2018**, 512, 511-521	9.3	13
79	Interfaces study of all-polysaccharide composite films. *Chemical Papers*, **2018**, 72, 711-718	1.9	1
78	Light-controllable viscoelastic properties of a photolabile carboxybetaine ester-based polymer with mucus and cellulose sulfate. *Emergent Materials*, **2018**, 1, 35-45	3.5	21
77	Toward an Accurate Spectrophotometric Evaluation of the Efficiencies of Photocatalysts in Processes Involving Their Separation Using Nylon Membranes. *Catalysts*, **2018**, 8, 576	4	1
76	Towards the higher solubility and thermal stability of poly(aniline-co-m-bromoaniline). *Ionics*, **2018**, 24, 3837-3844	2.7	1

75	Emerging clay-aryl-gold nanohybrids for efficient electrocatalytic proton reduction. *Energy Conversion and Management*, **2018**, 168, 170-177	10.6	14
74	Photoimmobilization of zwitterionic polymers on surfaces to reduce cell adhesion. *Journal of Colloid and Interface Science*, **2017**, 500, 294-303	9.3	9
73	Immobilization of concanavalin A lectin on a reduced graphene oxide-thionine surface by glutaraldehyde crosslinking for the construction of an impedimetric biosensor. *Journal of Electroanalytical Chemistry*, **2017**, 794, 156-163	4.1	9
72	Synergistic effect of interfacial phenomenon on enhancing catalytic performance of Pd loaded MnOx□eO2□ hetero-nanostructure for hydrogenation and electrochemical reactions. *Journal of Materials Chemistry A*, **2017**, 5, 10704-10712	13	21
71	pH-Switchable Interaction of a Carboxybetaine Ester-Based SAM with DNA and Gold Nanoparticles. *Langmuir*, **2017**, 33, 6657-6666	4	5
70	Electrochemical performance of TiCT MXene in aqueous media: towards ultrasensitive H2O2 sensing. *Electrochimica Acta*, **2017**, 235, 471-479	6.7	151
69	Molecular Fluorescence in Citric Acid-Based Carbon Dots. *Journal of Physical Chemistry C*, **2017**, 121, 2014-2022	3.8	353
68	Enhanced and durable electrocatalytic performance of thin layer PtRu bimetallic alloys on Pd-nanocubes for methanol oxidation reactions. *Catalysis Science and Technology*, **2017**, 7, 3283-3290	5.5	18
67	Carbon nitride embedded MnO2 nanospheres decorated with low-content Pt nanoparticles as highly efficient and durable electrode material for solid state supercapacitors. *Journal of Electroanalytical Chemistry*, **2017**, 801, 84-91	4.1	5
66	Nanomaterial-based biosensors for detection of prostate specific antigen. *Mikrochimica Acta*, **2017**, 184, 3049-3067	5.8	67
65	Highly efficient sustainable photocatalytic Z-scheme hydrogen production from an □Fe2O3 engineered ZnCdS heterostructure. *Journal of Catalysis*, **2017**, 353, 81-88	7.3	51
64	Highly Efficient Photocatalytic Z-Scheme Hydrogen Production over Oxygen-Deficient WO Nanorods supported ZnCdS Heterostructure. *Scientific Reports*, **2017**, 7, 6574	4.9	42
63	Carbonization conditions influence the emission characteristics and the stability against photobleaching of nitrogen doped carbon dots. *Nanoscale*, **2017**, 9, 11730-11738	7.7	66
62	Aggregated Molecular Fluorophores in the Ammonothermal Synthesis of Carbon Dots. *Chemistry of Materials*, **2017**, 29, 10352-10361	9.6	85
61	Nanotechnology in Glycomics: Applications in Diagnostics, Therapy, Imaging, and Separation Processes. *Medicinal Research Reviews*, **2017**, 37, 514-626	14.4	37
60	Mixed Zwitterion-Based Self-Assembled Monolayer Interface for Impedimetric Glycomic Analyses of Human IgG Samples in an Array Format. *Langmuir*, **2016**, 32, 7070-8	4	17
59	Propagation rate coefficient for sulfobetaine monomers by PLP□EC. *Polymer*, **2016**, 87, 38-49	3.9	10
58	Eco-Friendly Electromagnetic Interference Shielding Materials from Flexible Reduced Graphene Oxide Filled Polycaprolactone/Polyaniline Nanocomposites. *Polymer-Plastics Technology and Engineering*, **2016**, 55, 920-928		13

57	Sensitive detection and glycoprofiling of a prostate specific antigen using impedimetric assays. *Analyst, The*, **2016**, 141, 1044-51	5	31
56	Sweet characterisation of prostate specific antigen using electrochemical lectin-based immunosensor assay and MALDI TOF/TOF analysis: Focus on sialic acid. *Proteomics*, **2016**, 16, 3085-3095	4.8	25
55	Carbonyl iron coated with a sulfobetaine moiety as a biocompatible system and the magnetorheological performance of its silicone oil suspensions. *RSC Advances*, **2016**, 6, 32823-32830	3.7	14
54	Anisotropy in CNT composite fabricated by combining directional freezing and gamma irradiation of acrylic acid. *Materials and Design*, **2016**, 97, 300-306	8.1	5
53	Simple, Reversible, and Fast Modulation in Superwettability, Gradient, and Adsorption by Counterion Exchange on Self-Assembled Monolayer. *Langmuir*, **2016**, 32, 5491-9	4	32
52	A polysulfobetaine hydrogel for immobilization of a glucose-binding protein. *RSC Advances*, **2016**, 6, 83890-83900	3.7	30
51	Aberrant sialylation of a prostate-specific antigen: Electrochemical label-free glycoprofiling in prostate cancer serum samples. *Analytica Chimica Acta*, **2016**, 934, 72-9	6.6	42
50	Graphene oxide modified by betaine moieties for improvement of electrorheological performance. *RSC Advances*, **2015**, 5, 57820-57827	3.7	19
49	The interactions of probes based on substituted pyrene derivatives in polymer matrices; spectral study. *Journal of Photochemistry and Photobiology A: Chemistry*, **2015**, 307-308, 79-87	4.7	8
48	SEC Analysis of Poly(Acrylic Acid) and Poly(Methacrylic Acid). *Macromolecular Chemistry and Physics*, **2015**, 216, 23-37	2.6	33
47	Glycoprofiling as a novel tool in serological assays of systemic sclerosis: a comparative study with three bioanalytical methods. *Analytica Chimica Acta*, **2015**, 853, 555-562	6.6	19
46	Label-free impedimetric aptasensor with antifouling surface chemistry: A prostate specific antigen case study. *Sensors and Actuators B: Chemical*, **2015**, 209, 306-312	8.5	116
45	Switchable Materials Containing Polyzwitterion Moieties. *Polymers*, **2015**, 7, 2344-2370	4.5	54
44	Carboxybetaine Modified Interface for Electrochemical Glycoprofiling of Antibodies Isolated from Human Serum. *Langmuir*, **2015**, 31, 7148-57	4	26
43	Graphene as a signal amplifier for preparation of ultrasensitive electrochemical biosensors. *Chemical Papers*, **2015**, 69, 112-133	1.9	16
42	Glycoprofiling of cancer biomarkers: Label-free electrochemical lectin-based biosensors. *Open Chemistry*, **2015**, 13, 636-655	1.6	43
41	Designing dual phase sensing materials from polyaniline filled styrene–isoprene–styrene composites. *Materials Chemistry and Physics*, **2014**, 147, 1029-1036	4.4	30
40	Nanoscale controlled architecture for development of ultrasensitive lectin biosensors applicable in glycomics. *Analytical Methods*, **2014**, 6, 4922-4931	3.2	32

39	Photodynamic effect of hypericin after topical application in the ex ovo quail chorioallantoic membrane model. *Planta Medica*, **2014**, 80, 56-62	3.1	7
38	Quadrupolar benzobisthiazole-cored arylamines as highly efficient two-photon absorbing fluorophores. *Organic Letters*, **2014**, 16, 6358-61	6.2	41
37	Elastomeric Actuators Based on Ethylene-Vinyl Acetate and Carbon Nanotubes **2014**, 1-14		
36	Ultrasensitive impedimetric lectin biosensors with efficient antifouling properties applied in glycoprofiling of human serum samples. *Analytical Chemistry*, **2013**, 85, 7324-32	7.8	69
35	Stereostructure and thermodynamic stability of atropisomers of ortho-substituted 2,2?-diaryl-1,1?-binaphthalenes. *Tetrahedron: Asymmetry*, **2013**, 24, 1303-1311		2
34	Elastomeric photo-actuators and their investigation by confocal laser scanning microscopy. *Smart Materials and Structures*, **2013**, 22, 104001	3.4	12
33	Nanocomposite photoactuators based on an ethylene vinyl acetate copolymer filled with carbon nanotubes. *Sensors and Actuators B: Chemical*, **2013**, 186, 701-710	8.5	26
32	Light-switchable polymer from cationic to zwitterionic form: synthesis, characterization, and interactions with DNA and bacterial cells. *Macromolecular Rapid Communications*, **2013**, 34, 635-9	4.8	28
31	Solubilization of poorly soluble photosensitizer hypericin by polymeric micelles and polyethylene glycol. *General Physiology and Biophysics*, **2013**, 32, 201-8	2.1	10
30	Development of a new LDL-based transport system for hydrophobic/amphiphilic drug delivery to cancer cells. *International Journal of Pharmaceutics*, **2012**, 436, 463-71	6.5	42
29	Photo-actuating materials based on elastomers and modified carbon nanotubes. *Journal of Nanophotonics*, **2012**, 6, 063522	1.1	27
28	Quantitative analysis of energy transfer between fluorescent proteins in CFP-GBP-YFP and its response to Ca2+. *Physical Chemistry Chemical Physics*, **2011**, 13, 17852-63	3.6	3
27	Polysulfobetaine films prepared by electrografting technique for reduction of biofouling on electroconductive surfaces. *Applied Surface Science*, **2011**, 257, 10795-10801	6.7	17
26	Photoactuators on the base of polymeric elastomers and multiwall carbon nanotubes **2011**,		1
25	Zwitterionic hydrogels crosslinked with novel zwitterionic crosslinkers: Synthesis and characterization. *Polymer*, **2011**, 52, 3011-3020	3.9	44
24	Molecular Engineering of Benzothiazolium Salts with Large Quadratic Hyperpolarizabilities: Can Auxiliary Electron-Withdrawing Groups Enhance Nonlinear Optical Responses?. *Journal of Physical Chemistry C*, **2010**, 114, 22289-22302	3.8	95
23	A chiroptical binaphthopyran switch: amplified CD response in a polystyrene film. *New Journal of Chemistry*, **2010**, 34, 1109	3.6	10
22	Free-Radical Propagation Kinetics of N-Vinyl Formamide in Aqueous Solution Studied by PLP–SEC. *Macromolecular Chemistry and Physics*, **2010**, 211, 580-593	2.6	40

21	Fluoride anion sensing using colorimetric reagents containing binaphthyl moiety and urea binding site. *Chemical Papers*, **2009**, 63,	1.9	7
20	Biosensor for calcium based on a hydrogel optical waveguide with integrated sensor proteins **2009**,		2
19	Kinetics and Modeling of Free-Radical Batch Polymerization of Nonionized Methacrylic Acid in Aqueous Solution. *Industrial & Engineering Chemistry Research*, **2008**, 47, 8197-8204	3.9	37
18	Synthesis, Oxidation and Photophysical Properties of Novel Derivatives of Acyclic Aromatic Amines. *Collection of Czechoslovak Chemical Communications*, **2007**, 72, 1255-1268		0
17	(R,R,R)-Tris(2-hydroxy-1-methylethyl)- and (S,S,S)-tris(2-hydroxy-2-methylethyl)phosphine: water-soluble chiral trialkylphosphines with C3-symmetry. *Tetrahedron Letters*, **2007**, 48, 5665-5668	2	4
16	Potential 1,1?-binaphthyl NLO-phores with extended conjugation between positions 2 and 6, and 2? and 6?. *Tetrahedron Letters*, **2007**, 48, 8869-8873	2	8
15	Study on the electronic effects on stereoconservativity of Suzuki coupling in chiral groove of binaphthyl. *Journal of Organometallic Chemistry*, **2007**, 692, 5279-5284	2.3	11
14	An Expedient Synthesis of Dialkylphosphane-Borane Complexes from Sodium Phosphide, and Their Alkylation under Phase-Transfer Conditions. *Synthesis*, **2007**, 2007, 2987-2994	2.9	5
13	Chiral Binaphthalenes Bearing Two Pyridine Ligands Attached Via Acetylene Spacers. Synthesis and Coordination Study. *Collection of Czechoslovak Chemical Communications*, **2007**, 72, 1139-1157		2
12	A chiral phosphepine–olefin rhodium complex as an efficient catalyst for the asymmetric conjugate addition. *Tetrahedron: Asymmetry*, **2006**, 17, 3084-3090		84
11	Chiral molecular tapes from novel tetra(thiafulvalene-crown-ether)-substituted phthalocyanine building blocks. *Chemical Communications*, **2005**, 1255-7	5.8	106
10	Chiral α-branched mono phosphine auxiliaries, reversal of sense of asymmetric induction upon substitution. *Tetrahedron: Asymmetry*, **2005**, 16, 3416-3426		27
9	2-[1-(Benzylphenylphosphinothioyl)-2-phenylethyl]-2?-[(E)-2-chlorovinyl]-1,1?-binaphthyl. *Acta Crystallographica Section E: Structure Reports Online*, **2005**, 61, o4093-o4095		
8	Suzuki arylation at positions 2 and 2? of 1,1?-binaphthyls: stereochemical result depending on the sense of polarity of substrates. *Tetrahedron Letters*, **2004**, 45, 791-794	2	14
7	Elaboration of a novel effective approach to enantiopure functionalised 2,2?-dialkyl-1,1?-binaphthyls by stereoconservative cross-couplings at positions 2 and 2?. *Tetrahedron Letters*, **2004**, 45, 5279-5282	2	9
6	Stereoconservative Negishi arylation and alkynylation as an efficient approach to enantiopure 2,2′-diarylated 1,1′-binaphthyls. *Chemical Communications*, **2004**, 2606-7	5.8	37
5	Novel Route to Enantiopure 2,2′-Diaryl-1,1′-binaphthalenes by Stereoconservative Suzuki Arylation at Positions 2 and 2′. *Collection of Czechoslovak Chemical Communications*, **2004**, 69, 1517-1536		8
4	Highly negative homotropic allosteric binding of viologens in a double-cavity porphyrin. *Journal of the American Chemical Society*, **2003**, 125, 1186-7	16.4	70

3	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. *Journal of Organometallic Chemistry*, **2001**, 637-639, 318-326	2.3	19
2	Stereoconservative Cyanation of [1,1RBinaphthalene]-2,2Rdielectrophiles. An Alternative Approach to Homochiral C2-Symmetric [1,1RBinaphthalene]-2,2Rdicarbonitrile and Its Transformations. *Collection of Czechoslovak Chemical Communications*, **2000**, 65, 729-740		5
1	An updated review on boron removal from water through adsorption processes. *Emergent Materials*,1	3.5	8