

# Robert Piech

## List of Publications by Year in descending order

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78  
papers

1,323  
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331670

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Potentiometric Sensors with Carbon Black Supporting Platinum Nanoparticles. <i>Analytical Chemistry</i> , 2013, 85, 10255-10261.	6.5	69
2	The cyclic renewable mercury film silver based electrode for determination of molybdenum(VI) traces using adsorptive stripping voltammetry. <i>Talanta</i> , 2008, 76, 295-300.	5.5	61
3	The cyclic renewable mercury film silver based electrode for determination of manganese(II) traces using anodic stripping voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2008, 621, 43-48.	3.8	55
4	The Cyclic Renewable Mercury Film Silver Based Electrode for Determination of Uranium(VI) Traces Using Adsorptive Stripping Voltammetry. <i>Electroanalysis</i> , 2007, 19, 2342-2350.	2.9	51
5	All-solid-state nitrate selective electrode with graphene/tetrathiafulvalene nanocomposite as high redox and double layer capacitance solid contact. <i>Electrochimica Acta</i> , 2016, 210, 407-414.	5.2	48
6	Platinum nanoparticles intermediate layer in solid-state selective electrodes. <i>Analyst, The</i> , 2012, 137, 5272.	3.5	45
7	Application of Nanostructured TCNQ to Potentiometric Ion-Selective K <sup>+</sup> and Na <sup>+</sup> Electrodes. <i>Analytical Chemistry</i> , 2015, 87, 1718-1725.	6.5	42
8	Determination of trace arsenic with DDTC-Na by cathodic stripping voltammetry in presence of copper ions. <i>Journal of Electroanalytical Chemistry</i> , 2007, 599, 59-64.	3.8	34
9	Determination of trace selenium on hanging copper amalgam drop electrode. <i>Electrochimica Acta</i> , 2007, 53, 584-589.	5.2	33
10	Adsorptive stripping voltammetric determination of vanadium(V) with chloranilic acid using cyclic renewable mercury film silver based electrode. <i>Journal of Electroanalytical Chemistry</i> , 2009, 633, 333-338.	3.8	32
11	Glassy carbon electrode modified with carbon black for sensitive estradiol determination by means of voltammetry and flow injection analysis with amperometric detection. <i>Analytical Biochemistry</i> , 2018, 544, 7-12.	2.4	32
12	Improved Nitrate Sensing Using Solid Contact Ion Selective Electrodes Based on TTF and Its Radical Salt. <i>Journal of the Electrochemical Society</i> , 2015, 162, B257-B263.	2.9	28
13	TTF-TCNQ Solid Contact Layer in All-Solid-State Ion-Selective Electrodes for Potassium or Nitrate Determination. <i>Journal of the Electrochemical Society</i> , 2018, 165, B60-B65.	2.9	28
14	Renewable Copper and Silver Amalgam Film Electrodes of Prolonged Application for the Determination of Elemental Sulfur Using Stripping Voltammetry. <i>Electroanalysis</i> , 2008, 20, 809-815.	2.9	26
15	Carbon black as a glassy carbon electrode modifier for high sensitive melatonin determination. <i>Journal of Electroanalytical Chemistry</i> , 2017, 799, 278-284.	3.8	26
16	New high sensitive hydrocortisone determination by means of adsorptive stripping voltammetry on renewable mercury film silver based electrode. <i>Electrochimica Acta</i> , 2015, 182, 67-72.	5.2	25
17	Poly(3-octylthiophene-2,5-diyl) - nanosized ruthenium dioxide composite material as solid-contact layer in polymer membrane-based K <sup>+</sup> -selective electrodes. <i>Electrochimica Acta</i> , 2019, 322, 134718.	5.2	25
18	Determination of the leaching of polymeric ion-selective membrane components by stripping voltammetry. <i>Talanta</i> , 2010, 81, 1003-1009.	5.5	24

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19	TiC Working Electrode. Voltammetric Characteristics and Application for Determination of Lead Traces by Stripping Voltammetry. <i>Electroanalysis</i> , 2008, 20, 1655-1664.	2.9	22
20	Determination of trace arsenic on hanging copper amalgam drop electrode. <i>Talanta</i> , 2007, 72, 762-767.	5.5	21
21	Determination of Selenium Traces on Cyclic Renewable Mercury Film Silver Electrode in Presence of Copper Ions Using Cathodic Stripping Voltammetry. <i>Electroanalysis</i> , 2008, 20, 2475-2481.	2.9	21
22	Novel Sensitive Voltammetric Detection of Trace Gallium(III) with Presence of Catechol Using Mercury Film Silver Based Electrode. <i>Electroanalysis</i> , 2009, 21, 1842-1847.	2.9	21
23	Study on simultaneous measurements of trace gallium(III) and germanium(IV) by adsorptive stripping voltammetry using mercury film electrode. <i>Journal of Applied Electrochemistry</i> , 2011, 41, 207-214.	2.9	21
24	Molecular organic materials intermediate layers modified with carbon black in potentiometric sensors for chloride determination. <i>Electrochimica Acta</i> , 2018, 283, 1753-1762.	5.2	21
25	A Novel Method of High Sensitive Determination of Prednisolone on Renewable Mercury Film Silver Based Electrode. <i>Electroanalysis</i> , 2016, 28, 394-400.	2.9	20
26	Application of a glassy carbon electrode modified with carbon black nanoparticles for highly sensitive voltammetric determination of quetiapine. <i>Analytical Methods</i> , 2017, 9, 6662-6668.	2.7	20
27	Ruthenium dioxide nanoparticles as a high-capacity transducer in solid-contact polymer membrane-based pH-selective electrodes. <i>Mikrochimica Acta</i> , 2019, 186, 777.	5.0	20
28	Sensitive Voltammetric Determination of Ethinyl Estradiol on Carbon Black Modified Electrode. <i>Journal of the Electrochemical Society</i> , 2017, 164, H885-H889.	2.9	19
29	New Electrochemical Sensor of Prolonged Application for Metformin Determination Based on Hydrated Ruthenium Dioxide@Carbon Black@Nafion Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2020, 32, 1875-1884.	2.9	18
30	The Complex Crystal of NaTCNQ@TCNQ Supported on Different Carbon Materials as Ion-to-Electron Transducer in All-Solid-State Sodium-Selective Electrode. <i>Journal of the Electrochemical Society</i> , 2016, 163, B573-B579.	2.9	17
31	Optimization of Ruthenium Dioxide Solid Contact in Ion-Selective Electrodes. <i>Membranes</i> , 2020, 10, 182.	3.0	17
32	Sensitive voltammetric determination of gallium in aluminium materials using renewable mercury film silver based electrode. <i>International Journal of Environmental Analytical Chemistry</i> , 2011, 91, 410-420.	3.3	16
33	High Sensitive Voltammetric Levothyroxine Sodium Determination on Renewable Mercury Film Silver Based Electrode. <i>Journal of the Electrochemical Society</i> , 2016, 163, H605-H609.	2.9	16
34	Adsorptive Stripping Determination of Scandium(III) with Mordant Blue 9 on Silver Amalgam Film Electrode. <i>Electroanalysis</i> , 2010, 22, 1851-1856.	2.9	15
35	Fast cathodic stripping voltammetric determination of elemental sulfur in petroleum fuels using renewable mercury film silver based electrode. <i>Fuel</i> , 2012, 97, 876-878.	6.4	15
36	Carbon-Supported Platinum Nanoparticle Solid-State Ion Selective Electrodes for the Determination of Potassium. <i>Analytical Letters</i> , 2015, 48, 2773-2785.	1.8	15

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37	High Sensitive Method for Determination of the Toxic Bisphenol A in Food/Beverage Packaging and Thermal Paper Using Glassy Carbon Electrode Modified with Carbon Black Nanoparticles. <i>Food Analytical Methods</i> , 2017, 10, 3825-3835.	2.6	15
38	High selective potentiometric sensor for determination of nanomolar concentration of Cu(II) using a polymeric electrode modified by a graphene/7,7,8,8-tetracyanoquinodimethane nanoparticles. <i>Talanta</i> , 2017, 170, 41-48.	5.5	15
39	Spirolactone voltammetric determination on renewable amalgam film electrode. <i>Steroids</i> , 2018, 130, 1-6.	1.8	15
40	Highly sensitive voltammetric determination of dexamethasone on amalgam film electrode. <i>Journal of Electroanalytical Chemistry</i> , 2018, 809, 147-152.	3.8	15
41	Ultrasensitive determination of tungsten(VI) on picomolar level in voltammetric catalytic adsorptive catechol-chlorate(V) system. <i>Journal of Electroanalytical Chemistry</i> , 2010, 644, 74-79.	3.8	14
42	Ruthenium Dioxide as High-Capacitance Solid-Contact Layer in K <sup>+</sup> -Selective Electrodes Based on Polymer Membrane. <i>Journal of the Electrochemical Society</i> , 2019, 166, B1470-B1476.	2.9	14
43	Thiomersal determination on a renewable mercury film silver-based electrode using adsorptive stripping voltammetry. <i>Analytical Methods</i> , 2016, 8, 1187-1193.	2.7	13
44	The influence of an intermediate layer on the composition stability of a polymeric ion-selective membrane. <i>Electrochimica Acta</i> , 2012, 85, 104-109.	5.2	11
45	Application of graphene supporting platinum nanoparticles layer in electrochemical sensors with potentiometric and voltammetric detection. <i>Ionics</i> , 2018, 24, 2455-2464.	2.4	11
46	Dedicated mother wavelet in the determination of antimony in the presence of copper. <i>Talanta</i> , 2008, 77, 118-125.	5.5	10
47	Nimesulide Determination on Carbon Black-Nafion Modified Glassy Carbon Electrode by Means of Adsorptive Stripping Voltammetry. <i>Electrocatalysis</i> , 2021, 12, 641-649.	3.0	10
48	Sensitive and fast determination of papaverine by adsorptive stripping voltammetry on renewable mercury film electrode. <i>Open Chemistry</i> , 2013, 11, 736-741.	1.9	9
49	A simple way to modify selectivity of sodium sensitive electrodes by using organic conductive crystals. <i>Ionics</i> , 2019, 25, 2311-2321.	2.4	9
50	Highly Sensitive Levodopa Determination by Means of Adsorptive Stripping Voltammetry on Ruthenium Dioxide-Carbon Black-Nafion Modified Glassy Carbon Electrode. <i>Sensors</i> , 2021, 21, 60.	3.8	9
51	Iridium Oxide Film Electrodes for Anodic Stripping Voltammetry. <i>Electroanalysis</i> , 2008, 20, 2070-2075.	2.9	8
52	Voltammetric Electrode Based on Nafion and Poly(2,3-dihydrothieno[1,4-dioxin]-poly(styrenesulfonate) Film for Fast and High Sensitive Determination of Metamizole. <i>Journal of the Electrochemical Society</i> , 2016, 163, B146-B152.	2.9	8
53	High Capacity Nanocomposite Layers Based on Nanoparticles of Carbon Materials and Ruthenium Dioxide for Potassium Sensitive Electrode. <i>Materials</i> , 2021, 14, 1308.	2.9	8
54	Voltammetry and Flow Injection Analysis with Amperometric Detection for Sensitive Sodium Metamizole Determination on Glassy Carbon Electrode Modified with SWCNTs/Nafion. <i>ECS Journal of Solid State Science and Technology</i> , 2016, 5, M3005-M3011.	1.8	7

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55	Potentiometric Sensor with High Capacity Composite Composed of Ruthenium Dioxide and Poly(3,4-ethylenedioxythiophene) Polystyrene Sulfonate. <i>Materials</i> , 2021, 14, 1891.	2.9	7
56	New Electrochemical Sensor Based on Hierarchical Carbon Nanofibers with NiCo Nanoparticles and Its Application for Cetirizine Hydrochloride Determination. <i>Materials</i> , 2022, 15, 3648.	2.9	7
57	Voltammetric Determination of Codeine on Glassy Carbon Electrode Modified with Nafion/MWCNTs. <i>Journal of Analytical Methods in Chemistry</i> , 2015, 2015, 1-7.	1.6	6
58	Voltammetric Determination of Drospirenone on Mercury Film Electrode. <i>Journal of the Electrochemical Society</i> , 2017, 164, H311-H315.	2.9	6
59	High Sensitive Voltammetric Determination of Betamethasone on an Amalgam Film Electrode. <i>Journal of the Electrochemical Society</i> , 2018, 165, H646-H651.	2.9	6
60	Highly Sensitive AdSV Method for Fe(III) Determination in Presence of Solochrome Violet RS on Renewable Amalgam Film Electrode. <i>Electroanalysis</i> , 2019, 31, 1690-1696.	2.9	6
61	Potassium-Selective Solid-Contact Electrode with High-Capacitance Hydrous Iridium Dioxide in the Transduction Layer. <i>Membranes</i> , 2021, 11, 259.	3.0	6
62	The Evaluation Method of Smoothing Algorithms in Voltammetry. <i>Electroanalysis</i> , 2003, 15, 1729-1736.	2.9	5
63	Renewable Ceramic (TiN) Ring Electrode in Stripping Voltammetry. Determination of Pb(II) Without Removal of Oxygen. <i>Electroanalysis</i> , 2009, 21, 1773-1780.	2.9	5
64	Voltammetric Determination of Zinc, Copper, and Selenium in Selected Raw Plant Material. <i>Analytical Letters</i> , 2011, 44, 2347-2356.	1.8	5
65	Sensitive Voltammetric Determination of Titanium(IV) in Catalytic Adsorptive Mandelic Acid- $\text{ClO}_4^-$ System on Renewable Silver Amalgam Film Electrode. <i>Electroanalysis</i> , 2013, 25, 716-722.	2.9	5
66	Highly sensitive voltammetric determination of captopril on renewable amalgam film electrode. <i>Talanta</i> , 2022, 237, 122937.	5.5	5
67	A Novel Voltammetric Measurements of Beta Blocker Drug Propranolol on Glassy Carbon Electrode Modified with Carbon Black Nanoparticles. <i>Materials</i> , 2021, 14, 7582.	2.9	5
68	Hydrous Cerium Dioxide-Based Materials as Solid-Contact Layers in Potassium-Selective Electrodes. <i>Membranes</i> , 2022, 12, 349.	3.0	4
69	The determination of molybdenum in selected mushrooms by stripping voltammetry. <i>Open Chemistry</i> , 2011, 9, 352-356.	1.9	3
70	Application of a Partial Least Squares Regression for the Determination of Nanomolar Concentrations of Scandium in the Presence of Nickel by Adsorptive Stripping Voltammetry. <i>Electroanalysis</i> , 2013, 25, 1727-1733.	2.9	3
71	Deviations from bilinearity in multivariate voltammetric calibration models. <i>Analyst</i> , 2013, 138, 6817.	3.5	3
72	Fast and sensitive metronidazole determination by means of voltammetry on renewable amalgam silver based electrode without the preconcentration step. <i>Journal of the Serbian Chemical Society</i> , 2017, 82, 879-890.	0.8	3

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73	Highly Sensitive Adsorptive Stripping Voltammetric Method for Sitagliptin Determination on Renewable Amalgam Film Electrode. <i>Journal of the Electrochemical Society</i> , 2020, 167, 136510.	2.9	3
74	Optimization of method for zinc analysis in several bee products on renewable mercury film silver based electrode. <i>Acta Poloniae Pharmaceutica</i> , 2013, 70, 961-5.	0.1	3
75	Hierarchical Nanocomposites Electrospun Carbon NanoFibers/Carbon Nanotubes as a Structural Element of Potentiometric Sensors. <i>Materials</i> , 2022, 15, 4803.	2.9	3
76	Application of hanging copper amalgam drop electrode for voltammetric determination of selenium content in fruiting bodies of selected mushrooms. <i>International Journal of Environmental Analytical Chemistry</i> , 2014, 94, 269-276.	3.3	2
77	Fast and Sensitive Voltammetric Method for the Determination of Rifampicin on Renewable Amalgam Film Electrode. <i>Sensors</i> , 2021, 21, 5792.	3.8	2
78	Graphene Flakes Decorated with Dispersed Gold Nanoparticles as Nanomaterial Layer for ISEs. <i>Membranes</i> , 2021, 11, 548.	3.0	0