



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



VITALI PETRANOVSKI AFANASIEVNA

Datos Generales

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Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 25 años

Nombramientos

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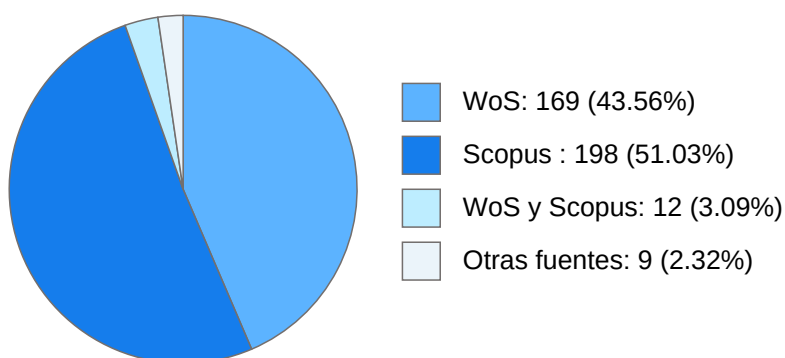
Estímulos, programas, premios y reconocimientos

SNI III 2022 - VIGENTE
SNI III 2011 - 2020
SNI II 2009
PRIDE C 2012 - 2024
PRIDE Fijo 2009 - 2012
PRIDE D - 2009
PASPA Estancias Sabáticas 2014

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Sonochemical preparation of Fe-Y zeolite catalyst for the conversion of benzene to phenol	LAZARO HUERTA ARCOS VITALI PETRANOVSKI AFANASIEVNA Victor Alfredo Reyes Villegas et al.	APPLIED CATALYSIS A-GENERAL	2025
2	Sonochemical post-synthesis modification of Y zeolite with iron species	ROSARIO ISIDRO YOCUPICIO GAXIOLA LAZARO HUERTA ARCOS VITALI PETRANOVSKI AFANASIEVNA et al.	MATERIALS CHEMISTRY AND PHYSICS	2025
3	Theoretical study of the electronic and optical properties of a composite formed by the zeolite NaA and a magnetite cluster	JOEL ANTUNEZ GARCIA VITALI PETRANOVSKI AFANASIEVNA H'LINH HMOK et al.	BEILSTEIN JOURNAL OF NANOTECHNOLOGY	2025
4	TiO ₂ immobilized on 2D mordenite: effect of hydrolysis conditions on structural, textural, and optical characteristics of the nanocomposites	ROSARIO ISIDRO YOCUPICIO GAXIOLA VITALI PETRANOVSKI AFANASIEVNA Shelyapina M.G. et al.	BEILSTEIN JOURNAL OF NANOTECHNOLOGY	2025
5	Zeolite materials with Ni and Co: synthesis and catalytic potential in the selective hydrogenation of citral	VITALI PETRANOVSKI AFANASIEVNA Inocente Rodriguez-Iznaga Yailen Costa Marrero et al.	BEILSTEIN JOURNAL OF NANOTECHNOLOGY	2025
6	FTIR Study of CO Adsorbed on Ag-Mordenite	VITALI PETRANOVSKI AFANASIEVNA Tsyganenko A. Shergin Y. et al.	KINETICS AND CATALYSIS	2025

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7	Selective Dehydration of Glycerol to Hydroxyacetone over Cu ⁻ , Ag ⁻ , and AgFe-Mordenites	JOEL ANTUNEZ GARCIA VITALI PETRANOVSKI AFANASIEVNA Shelyapina M.G. et al.	KINETICS AND CATALYSIS	2025
8	Study of Sorption Capacity of Zeolite Catalysts to Glycerol by Thermal Analysis and Calorimetry	VITALI PETRANOVSKI AFANASIEVNA Zvereva I.A. Shelyapina M.G. et al.	RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A	2024
9	Catalyst for lactose hydrolysis based on zeolite Y modified with Fe species by ultrasound treatment	VITALI PETRANOVSKI AFANASIEVNA Reyes Villegas V.A. De León Ramirez J.I. et al.	Environmental Advances	2024
10	Investigating patterns in aluminum distribution and stability in mordenite zeolite structure: Analysis and theoretical conclusions from existing experimental data	JOEL ANTUNEZ GARCIA VITALI PETRANOVSKI AFANASIEVNA FABIAN NATANAEL MURRIETA RICO et al.	JOURNAL OF SOLID STATE CHEMISTRY	2024
11	Single crystal polarization-orientation Raman spectroscopy of zeolite LTA with confined S3 ⁻ anions - High dielectric constant nanoporous material	VITALI PETRANOVSKI AFANASIEVNA Poborchii V.V. Glukhov I.A. et al.	MATERIALS CHEMISTRY AND PHYSICS	2024
12	Effect of the introduction of Zn on the electronic state of copper species in Cu-exchanged mordenite	VITALI PETRANOVSKI AFANASIEVNA DONALD HOMERO GALVAN MARTINEZ ANDREY SIMAKOV et al.	Molecular Catalysis	2024
13	Additive-free synthesis of layer-like Faujasite-type zeolite X	MUFEI XIAO WU VITALI PETRANOVSKI AFANASIEVNA ARMANDO REYES SERRATO et al.	JOURNAL OF MATERIALS SCIENCE	2024
14	Adsorption of the Herbicide Endosulfan by Newly Discovered Zeolitic Tuffs in Mexico	VITALI PETRANOVSKI AFANASIEVNA Juana Deisy Santamaria-Juarez Miguel angel Hernandez et al.	MINERALS	2024
15	Natural Clinoptilolite Materials Enriched in Nitrogen and Phosphorous for Agricultural Purposes: A Comprehensive Study on Their Development	VITALI PETRANOVSKI AFANASIEVNA de la Nuez Pantoja E.Y. Iznaga I.R. et al.	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	2024
16	Antimicrobial activity of the LTA zeolite modified by zinc species	RUBEN DARIO CADENA NAVA VITALI PETRANOVSKI AFANASIEVNA De León Ramirez J.I. et al.	MICROPOROUS AND MESOPOROUS MATERIALS	2024
17	Analysis of catalytic sites in FeY zeolite prepared by sono-assisted exchange of iron (II) ions	VITALI PETRANOVSKI AFANASIEVNA Reyes Villegas V.A. De León Ramirez J.I. et al.	MICROPOROUS AND MESOPOROUS MATERIALS	2024

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18	Pillaring 2D Mordenite with TiO ₂ Nanoparticles	ROSARIO ISIDRO YOCUPICIO GAXIOLA YULIA KOTOLEVICH VITALI PETRANOVSKI AFANASIEVNA et al.	RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A	2024
19	Theoretical investigation of Fe and Cu cations hosted within the MOR zeolite framework	VITALI PETRANOVSKI AFANASIEVNA ARMANDO REYES SERRATO MUFEI XIAO WU et al.	Materials Today Communications	2024
20	Photodegradation of RB5 dye with modified zeolites: influence of temperature and UV irradiation	VITALI PETRANOVSKI AFANASIEVNA MINERVA LARA HERNANDEZ Jose Manuel Sanchez-Viveros et al.	MATERIALS RESEARCH EXPRESS	2024
21	One-Pot Synthesis of Iron-Modified Zeolite X and Characterization of the Obtained Materials	FABIAN NATANAEL MURRIETA RICO JOEL ANTUNEZ GARCIA ROSARIO ISIDRO YOCUPICIO GAXIOLA et al.	CATALYSTS	2023
22	Influence of temperature and volume ratio of Cu:Ni exchange solutions on the chemical properties of the guest metals in prepared CuNi-mordenite materials: Evidence of direct competition between copper and nickel ions	ROSARIO ISIDRO YOCUPICIO GAXIOLA ANDREY SIMAKOV VITALI PETRANOVSKI AFANASIEVNA et al.	MICROPOROUS AND MESOPOROUS MATERIALS	2023
23	Mordenite-Supported Ag ⁺ -Cu ²⁺ -Zn ²⁺ Trimetallic System: A Variety of Nanospecies Obtained via Thermal Reduction in Hydrogen Followed by Cooling in an Air or Hydrogen Atmosphere	VITALI PETRANOVSKI AFANASIEVNA FELIPE FRANCISCO CASTILLON BARRAZA SERGIO FUENTES MOYADO et al.	Materials	2023
24	Textile Functionalization Using LTA and FAU Zeolitic Materials	FABIAN NATANAEL MURRIETA RICO ROSARIO ISIDRO YOCUPICIO GAXIOLA JOEL ANTUNEZ GARCIA et al.	POLYMERS	2023
25	Active Sites in H-Mordenite Catalysts Probed by NMR and FTIR	VITALI PETRANOVSKI AFANASIEVNA Shelyapina M.G. Krylova E.A. et al.	CATALYSTS	2023
26	Influence of Chemical Pretreatment on the Adsorption of N ₂ and O ₂ in Ca-Clinoptilolite	VITALI PETRANOVSKI AFANASIEVNA Miguel Angel Hernandez Gabriela I. Hernandez et al.	Separations	2023
27	Influence of the Valence of Iron on the NO Reduction by CO over Cu-Fe-Mordenite	YULIA KOTOLEVICH TRINO ARMANDO ZEPEDA PARTIDA ROSARIO ISIDRO YOCUPICIO GAXIOLA et al.	CATALYSTS	2023
28	CO ₂ Adsorption on Natural Zeolites from Puebla, Mexico, by Inverse Gas Chromatography	VITALI PETRANOVSKI AFANASIEVNA Miguel Angel Hernandez Gabriela Itzel Hernandez et al.	Separations	2023

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29	Formation of Ag-Fe Bimetallic Nano-Species on Mordenite Depending on the Initial Ratio of Components	YULIA KOTOLEVICH JOEL ANTUNEZ GARCIA VITALI PETRANOVSKI AFANASIEVNA et al.	Materials	2023
30	One-pot synthesis of stable cationic gold species highly active in the CO oxidation confined into mordenite-like zeolite	TRINO ARMANDO ZEPEDA PARTIDA ALFREDO SOLIS GARCIA ANDREY SIMAKOV et al.	APPLIED CATALYSIS B-ENVIRONMENTAL	2023
31	A theoretical study of the effect of exchange cations in surface of ZSM-5 lamellar zeolites	ROSARIO ISIDRO YOCUPICIO GAXIOLA VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO et al.	JOURNAL OF SOLID STATE CHEMISTRY	2023
32	Optical study of oriented double-Se-8-ring clusters and luminescent Se-2 anions in LTA at extremely high selenium loading density	VITALI PETRANOVSKI AFANASIEVNA Poborchii V.V. Glukhov I.A. et al.	MICROPOROUS AND MESOPOROUS MATERIALS	2023
33	Dynamics of Guest Water Molecules in Pillared Mordenite Studied by 1H NMR Relaxation	VITALI PETRANOVSKI AFANASIEVNA Shelyapina M.G. Nefedov D.Y. et al.	APPLIED MAGNETIC RESONANCE	2023
34	Frequency Response Analysis of FAU, LTA and MFI Zeolites Using UV-Vis and Electrochemical Impedance Spectroscopy	FABIAN NATANAEL MURRIETA RICO JOEL ANTUNEZ GARCIA ROSARIO ISIDRO YOCUPICIO GAXIOLA et al.	Optics	2023
35	First-Principles Study of Optical Properties of Linde-Type A Zeolite	MUFEI XIAO WU ARMANDO REYES SERRATO VITALI PETRANOVSKI AFANASIEVNA et al.	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	2023
36	Nanoconfined Water in Pillared Zeolites Probed by 1H Nuclear Magnetic Resonance	ROSARIO ISIDRO YOCUPICIO GAXIOLA VITALI PETRANOVSKI AFANASIEVNA Shelyapina M.G. et al.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2023
37	Influence of Components Deposition Order on Silver Species Formation in Bimetallic Ag-Fe System Supported on Mordenite	YULIA KOTOLEVICH JOEL ANTUNEZ GARCIA VITALI PETRANOVSKI AFANASIEVNA et al.	CATALYSTS	2022
38	Ion Exchange in Natural Clinoptilolite: Aspects Related to Its Structure and Applications	VITALI PETRANOVSKI AFANASIEVNA Rodríguez-Iznaga I. Shelyapina M.G.	MINERALS	2022
39	Aluminum distribution in mordenite-zeolite framework: A new outlook based on density functional theory calculations	JOEL ANTUNEZ GARCIA DONALD HOMERO GALVAN MARTINEZ VITALI PETRANOVSKI AFANASIEVNA et al.	JOURNAL OF SOLID STATE CHEMISTRY	2022

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40	Chabazite Synthesis and Its Exchange with Ti, Zn, Cu, Ag and Au for Efficient Photocatalytic Degradation of Methylene Blue Dye	RIGOBERTO LOPEZ JUAREZ ROSARIO ISIDRO YOCUPICIO GAXIOLA VITALI PETRANOVSKI AFANASIEVNA et al.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2022
41	Bimetallic Copper-Silver Systems Supported on Natural Clinoptilolite: Long-Term Changes in Nanospecies' Composition and Stability	VITALI PETRANOVSKI AFANASIEVNA Rodríguez-Iznaga I. Chávez-Rivas F. et al.	Inorganics	2022
42	A comparative analysis of natural zeolites from various Cuban and Mexican deposits: structure, composition, thermal properties and hierarchical porosity	VITALI PETRANOVSKI AFANASIEVNA Irina A. Zvereva Marina G. Shelyapina et al.	Journal Of Thermal Analysis And Calorimetry	2022
43	Basic Aspects in the Application of QCMs as Sensors: A Tutorial	FABIAN NATANAEL MURRIETA RICO VITALI PETRANOVSKI AFANASIEVNA DONALD HOMERO GALVAN MARTINEZ et al.	IEEE SENSORS JOURNAL	2022
44	LOCAL STRUCTURE OF PROTONATED MORDENITES WITH SiO ₂ /Al ₂ O ₃ ? 15 PROBED BY MULTINUCLEAR NMR	VITALI PETRANOVSKI AFANASIEVNA Krylova E.A. Shelyapina M.G. et al.	JOURNAL OF STRUCTURAL CHEMISTRY	2022
45	Zeolites as initial structures for the preparation of functional materials	FABIAN NATANAEL MURRIETA RICO JOEL ANTUNEZ GARCIA ROSARIO ISIDRO YOCUPICIO GAXIOLA et al.	Journal Of Applied Research And Technology Separations	2022
46	Nanoporosity and Isosteric Enthalpy of Adsorption of CH ₄ , H ₂ , and CO ₂ on Natural Chabazite and Exchanged	VITALI PETRANOVSKI AFANASIEVNA Miguel Angel Hernandez Karla Quiroz-Estrada et al.		2022
47	Local Structure of TiO ₂ /2D Mordenite Mesoporous Nanocomposites Probed by NMR	ROSARIO ISIDRO YOCUPICIO GAXIOLA URIEL CAUDILLO FLORES VITALI PETRANOVSKI AFANASIEVNA et al.	APPLIED MAGNETIC RESONANCE	2022
48	Analysis of the effect of crystallization time during growth on the properties of zeolite LTA film on quartz substrates	FABIAN NATANAEL MURRIETA RICO VITALI PETRANOVSKI AFANASIEVNA JOEL ANTUNEZ GARCIA et al.	INTERNATIONAL CONFERENCES & EXHIBITION ON NANOTECHNOLOGIES, ORGANIC ELECTRONICS & NANOMEDICINE, NANOTEXNOLOGY 2020, PT 1	2022

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49	Study of Electric and Magnetic Properties of Iron-Modified MFI Zeolite Prepared by a Mechanochemical Method	FABIAN NATANAEL MURRIETA RICO JOEL ANTUNEZ GARCIA ROSARIO ISIDRO YOCUPICIO GAXIOLA et al.	Materials	2022
50	Nanomaterials at the forefront against the virus SARS-CoV-2	SERGIO FUENTES MOYADO VITALI PETRANOVSKI AFANASIEVNA ELENA SMOLENTSEVA et al.	CIENCIA ERGO-SUM	2022
51	Zeolites with quantum dots as functional materials: current trends and perspectives for optical devices	FABIAN NATANAEL MURRIETA RICO VITALI PETRANOVSKI AFANASIEVNA DONALD HOMERO GALVAN MARTINEZ et al.	Proceedings Of The Ieee International Symposium On Industrial Electronics	2021
52	Frequency Shifts Estimation for Sensors Based on Optoelectronic Oscillators	FABIAN NATANAEL MURRIETA RICO VITALI PETRANOVSKI AFANASIEVNA DONALD HOMERO GALVAN MARTINEZ et al.	IEEE SENSORS JOURNAL	2021
53	The effect of chemical composition on the properties of LTA zeolite: A theoretical study	JOEL ANTUNEZ GARCIA DONALD HOMERO GALVAN MARTINEZ VITALI PETRANOVSKI AFANASIEVNA et al.	COMPUTATIONA L MATERIALS SCIENCE	2021
54	Prospects for Further Development of Face Masks to Minimize Pandemics Functionalization of Textile Materials with Biocide Inorganic Nanoparticles: A Review	VITALI PETRANOVSKI AFANASIEVNA JOEL ANTUNEZ GARCIA GABRIEL ALONSO NUÑEZ et al.	IEEE LATIN AMERICA TRANSACTIONS	2021
55	Influence of experimental conditions to obtain silver-modified zeolite-rich tuffs on the antimicrobial activity for Escherichia coli suspended in aqueous media	VITALI PETRANOVSKI AFANASIEVNA Aparicio-Vázquez S. Fall C. et al.	ENVIRONMENTA L TECHNOLOGY & INNOVATION	2021
56	Nanoparticles of gamma-Sitoesterol and Ag on Clinoptilolite Zeolites	VITALI PETRANOVSKI AFANASIEVNA Miguel Angel Hernandez Martha Alicia Salgado et al.	JOURNAL OF NANOMATERIAL S	2021
57	Recent Advances in Catalysis Based on Transition Metals Supported on Zeolites	YULIA KOTOLEVICH ROSARIO ISIDRO YOCUPICIO GAXIOLA JOEL ANTUNEZ GARCIA et al.	Frontiers in Chemistry	2021
58	Photocatalytic Degradation of Rhodamine B Dye in Aqueous Suspension by ZnO and M-ZnO (M = La ³⁺ , Ce ³⁺ , Pr ³⁺ and Nd ³⁺) Nanoparticles in the Presence of UV/H ₂ O ₂	RIGOBERTO LOPEZ JUAREZ VITALI PETRANOVSKI AFANASIEVNA González-Crisostomo J.C.	Processes	2021

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59	QCM modified with FAU zeolite nanostructures for analysis of temperature induced adsorbed mass changes	FABIAN NATANAEL MURRIETA RICO VITALI PETRANOVSKI AFANASIEVNA DONALD HOMERO GALVAN MARTINEZ et al.	Measurement	2021
60	Formation of admixed phase during microwave assisted Cu ion exchange in mordenite	VITALI PETRANOVSKI AFANASIEVNA Bogdanov D.S. Novikov R.G. et al.	MATERIALS CHEMISTRY AND PHYSICS	2021
61	Phase effect in frequency measurements of a quartz crystal using the pulse coincidence principle	FABIAN NATANAEL MURRIETA RICO VITALI PETRANOVSKI AFANASIEVNA DONALD HOMERO GALVAN MARTINEZ et al.	Proceedings Of The Ieee International Symposium On Industrial Electronics	2020
62	Wproperties of iron-modified-by-silver supported on mordenite as catalysts for nox reduction	MIGUEL ANGEL ESTRADA ARREOLA SERGIO FUENTES MOYADO VITALI PETRANOVSKI AFANASIEVNA et al.	CATALYSTS	2020
63	Local structures of two-dimensional zeolites?mordenite and ZSM-5?probed by multinuclear NMR	FABIAN NATANAEL MURRIETA RICO DONALD HOMERO GALVAN MARTINEZ VITALI PETRANOVSKI AFANASIEVNA et al.	Molecules	2020
64	Mechanism of formation of framework Fe3+ in bimetallic Ag-Fe mordenites - Effective catalytic centers for deNOx reaction	VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO Shelyapina M.G. et al.	MICROPOROUS AND MESOPOROUS MATERIALS	2020
65	Thermal reduction of Cu2+ in presence of Ag+ in clinoptilolite: Structural study by EXAFS and HR-XRD	VITALI PETRANOVSKI AFANASIEVNA Concepción-Rosabal B. Rodríguez-Iznaga I. et al.	REVISTA CUBANA DE FISICA	2019
66	Experimental analysis of measurement process for a QCM using the pulse coincidence method	FABIAN NATANAEL MURRIETA RICO VITALI PETRANOVSKI AFANASIEVNA Oleg Sergiyenko et al.	Ieee Industrial Electronics Society	2019
67	Critical admission temperature of H ₂ and CH ₄ in nanopores of exchanged ERI zeolites	VITALI PETRANOVSKI AFANASIEVNA Quiroz-Estrada K. Hernández M.Á. et al.	NANOMATERIAL S	2019
68	Filling of Irregular Channels with Round Cross-Section: Modeling Aspects to Study the Properties of Porous Materials (vol 11, 1901, 2018)	VITALI PETRANOVSKI AFANASIEVNA Yamel Ungson Larysa Burtseva et al.	Materials	2019
69	One-pot synthesis of lamellar mordenite and ZSM-5 zeolites and subsequent pillaring by amorphous SiO ₂	VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO Yocupicio-Gaxiola R.I. et al.	Applied Nanoscience	2019

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70	Recognition of depth composition profiles of copper-exchanged mordenites applying analytical methods with different depth vision	VITALI PETRANOVSKI AFANASIEVNA Zhukov Y.M. Shelyapina M.G. et al.	MATERIALS CHEMISTRY AND PHYSICS	2019
71	Theoretical study of the effect of isomorphous substitution by Al 3 + and/or Fe 3 + cations to tetrahedral positions in the framework of a zeolite with erionite topology	DONALD HOMERO GALVAN MARTINEZ VITALI PETRANOVSKI AFANASIEVNA FABIAN NATANAEL MURRIETA RICO et al.	JOURNAL OF MATERIALS SCIENCE	2019
72	Effect of phase in fast frequency measurements for sensors embedded in robotic systems	FABIAN NATANAEL MURRIETA RICO VITALI PETRANOVSKI AFANASIEVNA JOEL ANTUNEZ GARCIA et al.	INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS	2019
73	Fe speciation in Iron modified natural zeolites as sustainable environmental catalysts	VITALI PETRANOVSKI AFANASIEVNA Rivas F.C. Rodríguez-Iznaga I. et al.	CATALYSTS	2019
74	Comprehensive Analysis of the Copper Exchange Implemented in Ammonia and Protonated Forms of Mordenite Using Microwave and Conventional Methods	VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO Shelyapina M.G. et al.	Molecules	2019
75	The adsorbing properties of mesoporous silica/carbon composites prepared by direct carbonization of the template as the sole source of the carbon phase	VITALI PETRANOVSKI AFANASIEVNA Gerasymenko N. Reyes R.P. et al.	ADVANCED COMPOSITES LETTERS	2019
76	THERMAL REDUCTION OF Cu ²⁺ IN PRESENCE OF Ag ⁺ IN CLINOPTILOLITE: STRUCTURAL STUDY BY EXAFS AND HR-XRD	VITALI PETRANOVSKI AFANASIEVNA B. Concepcion-Rosabal I. Rodríguez-Iznaga et al.	REVISTA CUBANA DE FISICA	2019
77	Bimetallic AgFe systems on mordenite: Effect of cation deposition order in the NO reduction with C ₃ H ₆ /CO	SERGIO FUENTES MOYADO VITALI PETRANOVSKI AFANASIEVNA Sánchez-López P. et al.	CATALYSTS	2019
78	Analysis of theoretical and experimental X-ray diffraction patterns for distinct mordenite frameworks	SERGIO FUENTES MOYADO DONALD HOMERO GALVAN MARTINEZ VITALI PETRANOVSKI AFANASIEVNA et al.	JOURNAL OF MATERIALS SCIENCE	2019
79	Ammonium modified natural clinoptilolite to remove manganese, cobalt and nickel ions from wastewater: Favorable conditions to the modification and selectivity to the cations	GABRIELA RODRIGUEZ FUENTES VITALI PETRANOVSKI AFANASIEVNA Rodríguez-Iznaga, I.	MICROPOROUS AND MESOPOROUS MATERIALS	2018
80	Microwave assisted versus convention Cu ²⁺ exchange in mordenite	VITALI PETRANOVSKI AFANASIEVNA Y. M. Zhukov M. G. Shelyapina et al.	MICROPOROUS AND MESOPOROUS MATERIALS	2018

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81	Mobility of water molecules in sodium- and copper-exchanged mordenites: Thermal analysis and H-1 NMR study	VITALI PETRANOVSKI AFANASIEVNA Krylova E.A. Shelyapina M.G. et al.	MICROPOROUS AND MESOPOROUS MATERIALS	2018
82	Mechanical properties of viscous liquids and nanosuspensions	VITALI PETRANOVSKI AFANASIEVNA Dembelova T. Baloshin Y. et al.	Solid State Phenomena	2018
83	Efecto de la zeolita nanoestructurada con ácido lipoico sobre los parámetros productivos y rendimiento de la canal en el pollo de engorda	MARIA OFELIA MORA IZAGUIRRE KATRIN QUESTER VITALI PETRANOVSKI AFANASIEVNA et al.	Revista Mexicana De Ciencias Pecuarias	2018
84	Optimization of pulse width for frequency measurement by the method of rational approximations principle	VITALI PETRANOVSKI AFANASIEVNA ULISES JESUS TAMAYO PEREZ Murrieta-Rico F.N. et al.	Measurement	2018
85	Adsorption of N2, NO2 and CO2 on epistilbite natural zeolite from Jalisco, Mexico after acid treatment	VITALI PETRANOVSKI AFANASIEVNA FERNANDO ROJAS IÑIGUEZ Miguel Angel Hernandez-Espinosa et al.	MINERALS	2018
86	Light intensity induced phase transitions in graphene oxide doped polyvinylidene fluoride	VITALI PETRANOVSKI AFANASIEVNA Omari Paul Akinwunmi Joaquim et al.	Abstracts Of Papers Of The American Chemical Society	2018
87	Light intensity-induced phase transitions in graphene oxide doped polyvinylidene fluoride	VITALI PETRANOVSKI AFANASIEVNA Barnakov Y.A. Paul O. et al.	OPTICAL MATERIALS EXPRESS	2018
88	EFFECT OF ALKALINITY VARIATION IN GEL COMPOSITION DEVELOPED FOR HIERARCHICAL ZSM-5 GROWTH: CONVERSION OF ZSM-5 TO MORDENITE	VITALI PETRANOVSKI AFANASIEVNA TRINO ARMANDO ZEPEDA PARTIDA SERGIO FUENTES MOYADO et al.	REVISTA MEXICANA DE INGENIERIA QUIMICA	2018
89	Thermal analysis and EPR study of copper species in mordenites prepared by conventional and microwave-assisted methods	VITALI PETRANOVSKI AFANASIEVNA Marina Shelyapina Irina Zvereva et al.	Journal Of Thermal Analysis And Calorimetry	2018
90	Filling of irregular channels with round cross-section: Modeling aspects to study the properties of porous materials	VITALI PETRANOVSKI AFANASIEVNA Ungson Y. Burtseva L. et al.	Materials	2018
91	HIERARCHICAL STRUCTURE OF NANOPOROSITY OF MEXICAN NATURAL ZEOLITES OF CLINOPTILOLITE TYPE	VITALI PETRANOVSKI AFANASIEVNA Gabriela Itzel-Hernandez Miguel Angel Hernandez et al.	Bulletin Of The Tomsk Polytechnic University-Geo Assets Engineering	2018

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92	ADSORPTION OF CO ₂ , H ₂ and CH ₄ IN NATURAL ZEOLITES OF NARROW PORE	VITALI PETRANOVSKI AFANASIEVNA Rodolfo Garcia Franco Miguel Angel Hernandez et al.	REVISTA INTERNACIONAL DE CONTAMINACION AMBIENTAL	2018
93	A NEW APPROACH TO MEASUREMENT OF FREQUENCY SHIFTS USING THE PRINCIPLE OF RATIONAL APPROXIMATIONS	VITALI PETRANOVSKI AFANASIEVNA Murrieta-Rico, Fabian N. Sergiyenko, Oleg Y. et al.	METROLOGY AND MEASUREMENT SYSTEMS	2017
94	Nanoporosity of MCM-41 Materials and Y-Zeolites Created by Deposition of Tournefortia hirsutissima L. Plant Extract	FERNANDO ROJAS IÑIGUEZ VITALI PETRANOVSKI AFANASIEVNA Angel Hernandez, Miguel et al.	JOURNAL OF NANOMATERIALS	2017
95	Synthesis of nanostructured metal?, semiconductor?, and metal/semiconductor?mordenite composites from geothermal waste	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Jaime-Acuña, O.E. et al.	Journal Of Applied Research And Technology	2016
96	Resolution improvement of accelerometers measurement for drones in agricultural applications	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico, Fabian N. et al.	Ieee Industrial Electronics Society	2016
97	Effect of preparation method on the valence state and encirclement of copper exchange ions in mordenites	VITALI PETRANOVSKI AFANASIEVNA Zhukov, Y. M. Efimov, A. Yu. et al.	MICROPOROUS AND MESOPOROUS MATERIALS	2016
98	Use of natural mordenite to remove chromium (III) and to neutralize pH of alkaline waste waters	VITALI PETRANOVSKI AFANASIEVNA Cordova-Rodriguez, Valdivina Rodriguez-Iznaga, Inocente et al.	JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING	2016
99	Pulse width influence in fast frequency measurements using rational approximations	VITALI PETRANOVSKI AFANASIEVNA Murrieta-Rico, Fabian N. Sergiyenko, Oleg Yu et al.	Measurement	2016
100	A comparative analysis of the protonated and copper exchanged mordenites with SiO ₂ /Al ₂ O ₃ molar ratio equal to 10	VITALI PETRANOVSKI AFANASIEVNA Zhukov, Yuri M. Kovalyov, Alexander N. et al.	INTERNATIONAL JOURNAL OF NANOTECHNOLOGY	2016
101	Disperse orange 30 dye degradation by assisted plasmonic photocatalysis using Ag-CdZnSO ₄ /zeolitic matrix nanocomposites	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Jaime-Acuna, Oscar E. et al.	CATALYSIS COMMUNICATIONS	2016

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102	Iron exchanged natural mordenite: UV-Vis diffuse reflectance and Mossbauer spectroscopy characterisation	VITALI PETRANOVSKI AFANASIEVNA Tito-Ferro, Daria Rodriguez-Iznaga, Inocente et al.	INTERNATIONAL JOURNAL OF NANOTECHNOLOGY	2016
103	Textural Properties of Hybrid Biomedical Materials Made from Extracts of Tournefortia hirsutissima L. Imbibed and Deposited on Mesoporous and Microporous Materials	VITALI PETRANOVSKI AFANASIEVNA Angel Hernandez, Miguel Rojas, Fernando et al.	JOURNAL OF NANOMATERIALS	2016
104	Synthesis of multifunctional nanostructured materials from the Cerro Prieto geothermal brines	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Jaime-Acuña O.E. et al.	Geotermia	2016
105	Synthesis and Complete Antimicrobial Characterization of CEObACTER, an Ag-Based Nanocomposite	OSCAR RAYMOND HERRERA VITALI PETRANOVSKI AFANASIEVNA RAFAEL VAZQUEZ DUHALT et al.	PLOS ONE	2016
106	Effect of the exposure time at recording an X-ray photoelectron spectrum on the charge state and environment of copper in mordenites	VITALI PETRANOVSKI AFANASIEVNA Zhukov, Yu. M. Efimov, A. Yu. et al.	JETP LETTERS	2016
107	DFT study of composites formed by M2 metallic clusters (M = Ni, Cu, Fe and Au) embedded in faujasite	DONALD HOMERO GALVAN MARTINEZ ELENA SMOLENTSEVA VITALI PETRANOVSKI AFANASIEVNA et al.	RSC ADVANCES	2016
108	Plasmon spectra of binary Ag-Cu mixtures supported in mordenite	CATALINA LOPEZ BASTIDAS ELENA SMOLENTSEVA VITALI PETRANOVSKI AFANASIEVNA et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2016
109	High resolution measurement of water levels in optical components	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico, Fabian N. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2016
110	Special Issue on Nanoparticles, Nanomaterials and Nanoprocessing Preface	VITALI PETRANOVSKI AFANASIEVNA ELENA SMOLENTSEVA Shelyapina, Marina G.	INTERNATIONAL JOURNAL OF NANOTECHNOLOGY	2016
111	Potential uses of natural zeolites for the development of new materials: short review	VITALI PETRANOVSKI AFANASIEVNA A. Pestryakov Chaves-Rivas, F. et al.	MATEC Web of Conferences	2016

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112	High resolution measurement of physical variables change for INS	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico, Fabian N. et al.	Proceedings Of The Ieee International Symposium On Industrial Electronics	2016
113	Mathematical Modelling of molecular adsorption in zeolite coated frequency domain sensors	VITALI PETRANOVSKI AFANASIEVNA Murrieta-Rico F.N. Mercorelli P. et al.	IFAC PAPERSONLINE	2015
114	Insight into copper-mordenite-silica mixtures (CuMOR-SiO ₂)	Zaira Itzel BedollaValdez Jorge Noe Diaz de Leon GABRIEL ALONSO NUÑEZ et al.	COMPOTES RENDUS CHIMIE	2015
115	A DFT study of copper-oxide clusters embedded in dry and water-immersed siliceous mordenite	Joel AntunezGarcia DONALD HOMERO GALVAN MARTINEZ VITALI PETRANOVSKI AFANASIEVNA et al.	COMPUTATIONAL MATERIALS SCIENCE	2015
116	Rational Approximations Principle for Frequency Shifts Measurement in Frequency Domain Sensors	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Fabian N. Murrieta-Rico et al.	Ieee Industrial Electronics Society	2015
117	CO ₂ sequestration by natural zeolite for greenhouse effect control	FERNANDO ROJAS IÑIGUEZ VITALI PETRANOVSKI AFANASIEVNA Miguel Angel Hernandez et al.	Procedia Chemistry	2015
118	Adsorption of Ar and N ₂ on dealuminated mordenite tuffs	FERNANDO ROJAS IÑIGUEZ VITALI PETRANOVSKI AFANASIEVNA Karla Ortega et al.	Procedia Chemistry	2015
119	Hydrophilicity of mordenites with different SiO ₂ /Al ₂ O ₃ molar ratio	VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO Alexey Pestryakov et al.	Procedia Chemistry	2015
120	Instability measurement in time-frequency references used on autonomous navigation systems	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Fabian N. Murrieta-Rico et al.	Proceedings Of The Ieee International Symposium On Industrial Electronics	2015
121	Packing of monosized spheres in a cylindrical container: Models and approaches	VITALI PETRANOVSKI AFANASIEVNA Burtseva L. Salas B.V. et al.	REVISTA MEXICANA DE FISICA	2015
122	Acceleration measurement improvement by application of novel frequency measurement technique for FDS based INS	VITALI PETRANOVSKI AFANASIEVNA Fabian N. Murrieta-Rico Oleg Sergiyenko et al.	Proceedings Of The Ieee International Symposium On Industrial Electronics	2014

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123	Engineering of supported nanomaterials	KARLA OYUKY JUAREZ MORENO VITALI PETRANOVSKI AFANASIEVNA Alexey Pestryakov	Procedia Chemistry	2014
124	Caracterización por SEM, EDS y micro-Raman de la influencia de la relación molar SiO ₂ /Al ₂ O ₃ y temperatura de reducción sobre el sistema CuZSM5	VITALI PETRANOVSKI AFANASIEVNA Chávez Rivas F. Iznaga I.R.	REVISTA MEXICANA DE FISICA	2014
125	A theoretical study of Cu clusters in siliceous erionite	Joel Antunez Garcia DONALD HOMERO GALVAN MARTINEZ VITALI PETRANOVSKI AFANASIEVNA et al.	JOURNAL OF MOLECULAR STRUCTURE	2014
126	One dimensional (1D) γ -alumina nanorod linked networks: Synthesis, characterization and application	Jorge N. Diaz de Leon VITALI PETRANOVSKI AFANASIEVNA GABRIEL ALONSO NUÑEZ et al.	APPLIED CATALYSIS A-GENERAL	2014
127	Characterization by SEM, EDS and micro-Raman of the influence of the molar ratio SiO ₂ /Al ₂ O ₃ and temperature reduction on the system CuZSM5	VITALI PETRANOVSKI AFANASIEVNA Chavez Rivas, F. Rodriguez Iznaga, I.	REVISTA MEXICANA DE FISICA	2014
128	Atomic and electronic structure of quaternary Cd _x Zn _{1-x} SdO ₂ nanoparticles grown on mordenite	Oscar E. Jaime Acuna Humberto Villavicencio JESUS ANTONIO DIAZ HERNANDEZ et al.	CHEMISTRY OF MATERIALS	2014
129	Plasmon resonance of gold nanoparticles supported on Y-zeolite in the presence of various co-cations	ELENA SMOLENTSEVA CATALINA LOPEZ BASTIDAS VITALI PETRANOVSKI AFANASIEVNA et al.	APPLIED SURFACE SCIENCE	2014
130	Catalysts based on nanopowders supported on foam materials for deep oxidation of organic substances	VITALI PETRANOVSKI AFANASIEVNA Pestryakov A.	Advanced Materials Research	2014
131	Effect of the zeolitic matrix on the reduction process of Cu ²⁺ cations in clinoptilolite, mordenite and erionite	VITALI PETRANOVSKI AFANASIEVNA FELIPE FRANCISCO CASTILLON BARRAZA Rodríguez-Iznaga I. et al.	Advanced Materials Research	2014
132	Two different states of copper ions in zeolites	VITALI PETRANOVSKI AFANASIEVNA Efimov A. Pestryakov A. et al.	Advanced Materials Research	2014
133	Ion-exchange of amino- and aqua-complexes of nickel and cobalt in natural clinoptilolite	VITALI PETRANOVSKI AFANASIEVNA Rodríguez-Iznaga I. Rodríguez-Fuentes G.	Journal of Environmental Chemical Engineering	2014
134	Transport of reactants in ultrathin channels during the etching reaction	VITALI PETRANOVSKI AFANASIEVNA Espinosa M.Á.H. Kolobova E. et al.	Advanced Materials Research	2014
135	Some aspects of computer approaches for simulation of bimodal sphere packing in material engineering	VITALI PETRANOVSKI AFANASIEVNA Burtseva L. Pestryakov A. et al.	Advanced Materials Research	2014

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136	Optical spectra of noble metal nanoparticles supported on zeolites	CATALINA LOPEZ BASTIDAS ELENA SMOLENTSEVA ROBERTO MACHORRO MEJIA et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2014
137	Evidence for controlled insertion of Fe ions in the framework of clinoptilolite natural zeolites	VITALI PETRANOVSKI AFANASIEVNA Chavez-Rivas, F. Rodriguez-Fuentes, G. et al.	MICROPOROUS AND MESOPOROUS MATERIALS	2013
138	Plasmon Features of Coinage Metal Nanoparticles Supported on Zeolites	CATALINA LOPEZ BASTIDAS ELENA SMOLENTSEVA VITALI PETRANOVSKI AFANASIEVNA et al.	Plasmonics	2013
139	Formation of copper nanoparticles in mordenites with variable SiO ₂ /Al ₂ O ₃ molar ratios under redox treatments	VITALI PETRANOVSKI AFANASIEVNA Stoyanov E. Gurin C. et al.	REVISTA MEXICANA DE FISICA	2013
140	Self-assembly of size-selected clusters and nanoparticles of Cu, Ag and Au in mordenite matrix	ELENA SMOLENTSEVA VITALI PETRANOVSKI AFANASIEVNA Gurin V.	REVISTA MEXICANA DE INGENIERIA QUIMICA	2012
141	Optical response of Cu clusters in zeolite template	CATALINA LOPEZ BASTIDAS VITALI PETRANOVSKI AFANASIEVNA ROBERTO MACHORRO MEJIA	JOURNAL OF COLLOID AND INTERFACE SCIENCE	2012
142	Ni-mordenite system: Influence of SiO ₂ /Al ₂ O ₃ molar ratio on the catalytic activity in no reduction [Sistema ni-mordenita: Influencia de la relación molar SiO ₂ /Al ₂ O ₃ en la actividad catalítica para la reducción de no]	ANDREY SIMAKOV MIGUEL AVALOS BORJA FELIPE FRANCISCO CASTILLON BARRAZA et al.	REVISTA MEXICANA DE INGENIERIA QUIMICA	2012
143	Reduction of nickel ions in mordenites with different SiO ₂ /Al ₂ O ₃ molar ratios	VITALI PETRANOVSKI AFANASIEVNA ANDREY SIMAKOV Pestryakov A. et al.	Proceedings - 2012 7th International Forum On Strategic Technology, Ifost 2012	2012

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144	Formation of active surface of copper catalysts in methanol oxidation	NINA BOGDANCHIKOVA VITALI PETRANOVSKI AFANASIEVNA Pestryakov A. et al.	Proceedings - 2012 2012 7th International Forum On Strategic Technology, Ifost 2012	2012
145	Optical Properties of ZnO Nanoparticles on the Porous Structure of Mordenites and ZSM-5	A. Susarrey Arce VITALI PETRANOVSKI AFANASIEVNA WENCEL JOSE DE LA CRUZ HERNANDEZ et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2011
146	Copper-Silver Bimetallic System on Natural Clinoptilolite: Thermal Reduction of Cu ²⁺ and Ag ⁺ Exchanged	VITALI PETRANOVSKI AFANASIEVNA FELIPE FRANCISCO CASTILLON BARRAZA Rodriguez-Iznaga, Inocente et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2011
147	11th Mexican Congress on Catalysis: Catalysis and Nanotechnology PREFACE	AMELIA OLIVAS SARABIA GABRIEL ALONSO NUÑEZ TRINO ARMANDO ZEPEDA PARTIDA et al.	TOPICS IN CATALYSIS	2011
148	Inception and Trapping of ZnO Nanoparticles within Desilicated Mordenite and ZSM-5 Zeolites	Arturo Susarrey Arce VITALI PETRANOVSKI AFANASIEVNA Angel Hernandez-Espinosa, Miguel et al.	PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION	2010
149	Growth of copper nanoparticles in erionite matrix	VITALI PETRANOVSKI AFANASIEVNA Chavez Rivas, F. Zamorano Ulloa, R.	REVISTA MEXICANA DE FISICA	2010
150	Unsupported Ni-Mo-W sulphide HDS catalysts with the varying nickel concentration	R. Huirache Acuna VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO et al.	APPLIED CATALYSIS A-GENERAL	2009
151	Structure and stability of In-X(Z) (X ≤ 9; Z = -1, 0, 1) clusters. Theoretical insights	ABRAHAM FOUAD JALBOUT MARIA GUADALUPE MORENO ARMENTA DONALD HOMERO GALVAN MARTINEZ et al.	CHEMICAL PHYSICS LETTERS	2008
152	Synthesis of ZnO nanoparticles supported on zeolites and their cathodoluminescence properties	MANUEL HERRERA ZALDIVAR VITALI PETRANOVSKI AFANASIEVNA Susarrey-Arce A.	STUD SURF SCI CATAL	2008
153	Formation of catalytically active copper and nickel nanoparticles in natural zeolites	VITALI PETRANOVSKI AFANASIEVNA Pestryakov A.N. Kazantseva L.K. et al.	STUD SURF SCI CATAL	2008

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154	A complex study of copper reduction in erionite	VITALI PETRANOVSKI AFANASIEVNA HUGO JESUS TIZNADO VAZQUEZ MARIO HUMBERTO FARIAS SANCHEZ et al.	STUD SURF SCI CATAL	2008
155	Catalysts based on foam materials for neutralization of waste gases	VITALI PETRANOVSKI AFANASIEVNA Pestryakov A.N. Lunin V.V.	CATALYSIS COMMUNICATIO NS	2007
156	Exchange and reduction of Cu ²⁺ ions in clinoptilolite	VITALI PETRANOVSKI AFANASIEVNA Rodríguez Iznaga I. Rodríguez Fuentes G. et al.	JOURNAL OF COLLOID AND INTERFACE SCIENCE	2007
157	Characterization of binary Ag-Cu ion mixtures in zeolites: Their reduction products and stability to air oxidation	VITALI PETRANOVSKI AFANASIEVNA Fiddy S. Ogden S. et al.	AIP Conference Proceedings	2007
158	Spectral-optic response of ZnS and mixed Cd _x Zn _{1-x} S nanoclusters on synthetic mordenites	OSCAR RAYMOND HERRERA VITALI PETRANOVSKI AFANASIEVNA JESUS MARIA SIQUEIROS BELTRONES et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2007
159	PdO/Al ₂ O ₃ -(Ce _{1-x} Zr _x)O ₂ catalysts: Effect of the sol-gel support composition	SERGIO FUENTES MOYADO VITALI PETRANOVSKI AFANASIEVNA ANDREY SIMAKOV et al.	CATALYSIS LETTERS	2006
160	Influence of the Si/Al framework ratio on the microporosity of dealuminated mordenite as determined from N ₂ adsorption	VITALI PETRANOVSKI AFANASIEVNA MIGUEL AVALOS BORJA Hernández M.A. et al.	SEPARATION SCIENCE AND TECHNOLOGY	2006
161	Effect of the Zn(II) on the reduction of Cu(II) in natural clinoptilolite	VITALI PETRANOVSKI AFANASIEVNA FELIPE FRANCISCO CASTILLON BARRAZA MARIO HUMBERTO FARIAS SANCHEZ et al.	OPTICAL MATERIALS	2006
162	Study of electronic states of supported copper in catalytic systems	VITALI PETRANOVSKI AFANASIEVNA Pestryakov A.N. Lunin V.V. et al.	REVISTA MEXICANA DE FISICA	2005
163	Spectroscopic observation and ab initio simulation of copper clusters in zeolites	VITALI PETRANOVSKI AFANASIEVNA ROBERTO MACHORRO MEJIA Gurin V.	CATALYSIS TODAY	2005
164	Adsorption of chlorinated hydrocarbons on substrata microporous: Dealuminated clinoptilolites and SiO ₂ [Adsorción de hidrocarburos clorados en sustratos con microporos: clinoptilolitas desaluminizadas y SiO ₂]	VITALI PETRANOVSKI AFANASIEVNA Hernández M.Á. González A.I. et al.	REVISTA INTERNACIONAL DE CONTAMINACIO N AMBIENTAL	2005

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165	Silver and copper clusters and small particles stabilized within nanoporous silicate-based materials	VITALI PETRANOVSKI AFANASIEVNA NINA BOGDANCHIKOVA Gurin V.S. et al.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	2005
166	The effect of gold on the phase transitions of titania	MIGUEL AVALOS BORJA VITALI PETRANOVSKI AFANASIEVNA Debeila M.A. et al.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	2005
167	The influence of gold on the optical properties of sol-gel derived titania	MIGUEL AVALOS BORJA VITALI PETRANOVSKI AFANASIEVNA Debeila M.A. et al.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	2005
168	Formation of catalytically active copper nanoparticles in natural zeolites for complete oxidation of hydrocarbons	VITALI PETRANOVSKI AFANASIEVNA MARIO HUMBERTO FARIAS SANCHEZ Pestryakov A.N. et al.	INTERNATIONAL JOURNAL OF MODERN PHYSICS B	2005
169	Structural effects on the mutual solubility of solution components and formation of zinc and cadmium chloride complexes in Zn(Cd)(NO ₃) ₂ -LiCl-H ₂ O systems	VITALI PETRANOVSKI AFANASIEVNA Khripun M.K. Kiselev A.A. et al.	JOURNAL OF STRUCTURAL CHEMISTRY	2004
170	Supported foam-copper catalysts for methanol selective oxidation	VITALI PETRANOVSKI AFANASIEVNA Pestryakov A.N. Pfänder N. et al.	CATALYSIS COMMUNICATIONS	2004
171	Copper clusters in zeolites	VITALI PETRANOVSKI AFANASIEVNA Gurin V.S.	STUD SURF SCI CATAL	2004

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172	A novel organic-free sol-gel route to ceria-zirconia-alumina thin films and glassy products	VITALI PETRANOVSKI AFANASIEVNA Frolova E. Ivanovskaya M. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004
173	Study of copper nanoparticles formation on supports of different nature by UV-Vis diffuse reflectance spectroscopy	VITALI PETRANOVSKI AFANASIEVNA Pestryakov A.N. Kryazhov A. et al.	CHEMICAL PHYSICS LETTERS	2004
174	Optical appearance of copper clusters and nanoparticles in zeolites	VITALI PETRANOVSKI AFANASIEVNA ROBERTO MACHORRO MEJIA Gurin V. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004
175	Formation of copper nano-species of de-NOx catalysts based on Cu-mordenite: Role of variable silica-alumina ratio and effects of adsorbed water	VITALI PETRANOVSKI AFANASIEVNA ANDREY SIMAKOV Chavez-Rivas F. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004
176	Copper clusters and small particles stabilized within nanoporous materials	VITALI PETRANOVSKI AFANASIEVNA Gurin V.S. Pestryakov A.N. et al.	EUROPEAN PHYSICAL JOURNAL D	2003
177	EXAFS and optical spectroscopy characterisation of reduction products of binary silver-copper ion mixture in mordenite	VITALI PETRANOVSKI AFANASIEVNA Fiddy S.G. Ogden J.S.	EUROPEAN PHYSICAL JOURNAL D	2003
178	Growth and characterization of ZnS and ZnCdS nanoclusters in mordenite zeolite host	OSCAR RAYMOND HERRERA VITALI PETRANOVSKI AFANASIEVNA JESUS MARIA SIQUEIROS BELTRONES et al.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	2003

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179	Microbiologically active nanocomposite media	VITALI PETRANOVSKI AFANASIEVNA Panina L. Bogomolova E. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2003
180	Controlling copper reducibility in mordenites by varying the SiO ₂ /Al ₂ O ₃ molar ratio	VITALI PETRANOVSKI AFANASIEVNA NINA BOGDANCHIKOVA Gurin V. et al.	MATERIALS LETTERS	2003
181	Supported foam-silver catalysts for alcohol partial oxidation	NINA BOGDANCHIKOVA VITALI PETRANOVSKI AFANASIEVNA Pestryakov A.N. et al.	CATALYSIS COMMUNICATIO NS	2003
182	Copper nanoparticles within amorphous and crystalline dielectric matrices	VITALI PETRANOVSKI AFANASIEVNA NINA BOGDANCHIKOVA Gurin V.S. et al.	JOURNAL OF MATERIALS SCIENCE-MATER IALS IN ELECTRONICS	2003
183	Silver and copper nanostructures within the erionite regular lattice: Interplay between intra- and extra-crystalline location	VITALI PETRANOVSKI AFANASIEVNA NINA BOGDANCHIKOVA Gurin V.S.	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	2003
184	Metal clusters and nanoparticles assembled in zeolites: An example of stable materials with controllable particle size	VITALI PETRANOVSKI AFANASIEVNA NINA BOGDANCHIKOVA Gurin V.S.	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	2002
185	Selective oxidation of alcohols over foam-metal catalysts	NINA BOGDANCHIKOVA VITALI PETRANOVSKI AFANASIEVNA Pestryakov A.N. et al.	APPLIED CATALYSIS A-GENERAL	2002
186	Features of component interaction in concentrated solutions of multicomponent systems	VITALI PETRANOVSKI AFANASIEVNA Khripun M.K. Chervonenko K.Yu. et al.	RUSSIAN JOURNAL OF GENERAL CHEMISTRY	2002

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187	An effect of zeolite type upon properties of copper nanoparticles and clusters produced within them	VITALI PETRANOVSKI AFANASIEVNA NINA BOGDANCHIKOVA Gurin V. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2002
188	The effect of SiO ₂ /Al ₂ O ₃ molar ratio in mordenite upon the optical appearance of reduced copper	VITALI PETRANOVSKI AFANASIEVNA NINA BOGDANCHIKOVA Gurin V. et al.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	2002
189	A selectivity of zeolite matrices in the Cu(II) reduction process	VITALI PETRANOVSKI AFANASIEVNA NINA BOGDANCHIKOVA MIGUEL AVALOS BORJA et al.	STUD SURF SCI CATAL	2002
190	Reduction of binary silver-copper ion mixture in mordenite: An example of synergetic behavior	VITALI PETRANOVSKI AFANASIEVNA NINA BOGDANCHIKOVA	STUD SURF SCI CATAL	2002
191	Characterization of H and Cu mordenites with varying SiO ₂ /Al ₂ O ₃ ratios, by optical spectroscopy, MAS NMR of ²⁹ Si, ²⁷ Al and ¹ H, temperature programmed desorption and catalytic activity for nitrogen oxide reduction	VITALI PETRANOVSKI AFANASIEVNA NINA BOGDANCHIKOVA SERGIO FUENTES MOYADO et al.	STUD SURF SCI CATAL	2002
192	EXAFS and optical spectroscopy characterisation of silver within zeolite matrices	NINA BOGDANCHIKOVA VITALI PETRANOVSKI AFANASIEVNA MIGUEL AVALOS BORJA et al.	STUD SURF SCI CATAL	2002
193	Plasmon resonance of copper nanoparticles within zeolites: The effect of matrix composition and agglomeration temperature	VITALI PETRANOVSKI AFANASIEVNA Gurin V. Tamariz Flores J.V.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2001

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194	Self-assembling of silver and copper small clusters within the zeolite cavities: Prediction of geometry	NINA BOGDANCHIKOVA VITALI PETRANOVSKI AFANASIEVNA Gurin V.S.	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	2001
195	Microbicide effect of Ag-clinoptilolites. Part I. Preparation and investigation of structure of samples containing silver in different states	NINA BOGDANCHIKOVA VITALI PETRANOVSKI AFANASIEVNA Concepcion Rosabal B. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2000
196	Few-atomic silver clusters in zeolites: Ab initio MO LCAO calculation and optical spectroscopy	NINA BOGDANCHIKOVA VITALI PETRANOVSKI AFANASIEVNA Gurin V.S.	JOURNAL OF PHYSICAL CHEMISTRY B	2000
197	Role of mordenite acid properties in silver cluster stabilization	NINA BOGDANCHIKOVA VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO et al.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	2000
198	Preparation of WS ₂ catalysts by in situ decomposition of tetraalkylammonium thiotungstates	GABRIEL ALONSO NUÑEZ VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO et al.	APPLIED CATALYSIS A-GENERAL	2000
199	Influence of preparation conditions on formation of crystalline phases of nickel sulfide	AMELIA OLIVAS SARABIA MIGUEL AVALOS BORJA VITALI PETRANOVSKI AFANASIEVNA et al.	MATERIALS LETTERS	1999
200	Role of pH in the stabilization of two types of silver clusters	NINA BOGDANCHIKOVA VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO et al.	REACT KINET CATAL L	1999
201	Catalytic properties of WS ₂ catalysts prepared by in situ decomposition of tetraalkyl-ammonium thiotungstates	GABRIEL ALONSO NUÑEZ VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO et al.	STUD SURF SCI CATAL	1999

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20 2	Influence of the cluster formation on the zeolite crystal lattice	VITALI PETRANOVSKI AFANASIEVNA Barnakov Yurii A. Mitypov Bair B. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1999
20 3	Structure of silver clusters embedded in erionite channels	NINA BOGDANCHIKOVA VITALI PETRANOVSKI AFANASIEVNA Ogden J.S. et al.	EUROPEAN PHYSICAL JOURNAL D	1999
20 4	Preparation of MoS ₂ and WS ₂ catalysts by in situ decomposition of ammonium thiosalts	GABRIEL ALONSO NUÑEZ VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO et al.	CATALYSIS LETTERS	1998
20 5	Preparation of MoS ₂ catalysts by in situ decomposition of tetraalkylammonium thiomolybdates	GABRIEL ALONSO NUÑEZ VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO et al.	CATALYSIS TODAY	1998
20 6	Synthesis and characterization of nickel sulfide catalysts	AMELIA OLIVAS SARABIA VITALI PETRANOVSKI AFANASIEVNA MIGUEL AVALOS BORJA et al.	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	1998
20 7	Hydrodeoxygenation on unsupported nickel sulfide catalysts	AMELIA OLIVAS SARABIA VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO et al.	American Chemical Society, Division of Petroleum Chemistry, Preprints	1998
20 8	Raman and absorption spectra of the zeolites A and X containing selenium and tellurium in the nanopores	VITALI PETRANOVSKI AFANASIEVNA Poborchii V.V. Ivanova M.S. et al.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	1996
20 9	A cationic cesium continuum in zeolite X	VITALI PETRANOVSKI AFANASIEVNA Sun T. Seff K. et al.	J PHYS CHEM-US	1994
210	Stabilization of silver clusters in zeolite matrices	NINA BOGDANCHIKOVA VITALI PETRANOVSKI AFANASIEVNA Dulin M.N. et al.	STUD SURF SCI CATAL	1994
211	Optical, electric and photoelectric properties of pure and CdS or CuCl cluster doped zeolite single crystals	VITALI PETRANOVSKI AFANASIEVNA Barnakov Yu.A. Ivanova M.S. et al.	STUD SURF SCI CATAL	1994

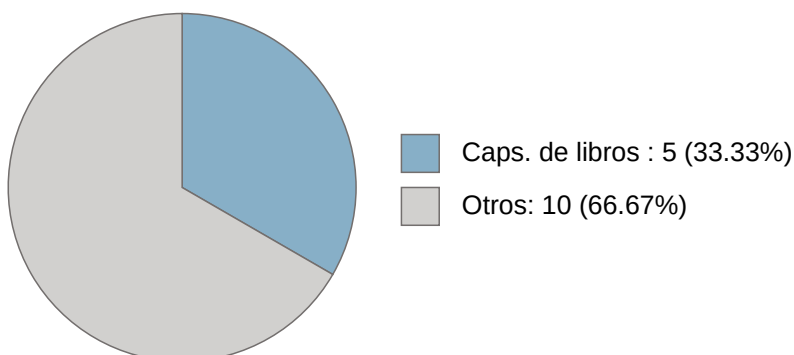
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212	A cationic cesium continuum in zeolite X	VITALI PETRANOVSKI AFANASIEVNA Sun T. Seff K. et al.	Science	1993
213	FORMATION AND PROPERTIES OF REGULAR ENSEMBLES OF CLUSTERS AND FIBERS IN CRYSTALLINE MATRICES.	VITALI PETRANOVSKI AFANASIEVNA Aleksiev Yu.A. Bogomolov V.N. et al.	Bulletin Of The Academy Of Sciences Of The U.S.S.R. Physical Series	1985
214	EFFECT OF SIZE ON THE TEMPERATURE OF ?MELTING? OF 9 A METALLIC PARTICLES.	VITALI PETRANOVSKI AFANASIEVNA Bogomolov V.N. Zadorozhnii A.I. et al.	Sov Phys Solid State	1976

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	Zeolites as functional materials in the development of sensors	FABIAN NATANAEL MURRIETA RICO VITALI PETRANOVSKI AFANASIEVNA JOEL ANTUNEZ GARCIA et al.	Capítulo de un Libro	2022	9798886972412
2	Analysis of Frequency Domain Data Generated by a Quartz Crystal	VITALI PETRANOVSKI AFANASIEVNA JOEL ANTUNEZ GARCIA Murrieta-Rico F.N. et al.	Capítulo de un Libro	2022	9781799892212
3	Materials for CO2, SOx, and NOx Emission Reduction 104	VITALI PETRANOVSKI AFANASIEVNA Shelyapina M.G. Rodríguez-Iznaga I.	Capítulo de un Libro	2021	9783030362683
4	Phase effect in frequency measurements of a quartz crystal using the pulse coincidence principle	FABIAN NATANAEL MURRIETA RICO VITALI PETRANOVSKI AFANASIEVNA DONALD HOMERO GALVAN MARTINEZ et al.	Conferenc e Paper	2020	9781728156354

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5	Analysis of Spatial Localization Trough Frequency Counting for Accelerometers Embedded in INS	FABIAN NATANAEL MURRIETA RICO VITALI PETRANOVSKI AFANASIEVNA Sanchez-Lopez J.D.D. et al.	Conferenc e Paper	2019	9781728136660
6	Experimental analysis of measurement process for a QCM using the pulse coincidence method	FABIAN NATANAEL MURRIETA RICO VITALI PETRANOVSKI AFANASIEVNA Sergiyenko O. et al.	Conferenc e Paper	2019	9781728148786
7	¿que es un grupo cibotactico?	VITALI PETRANOVSKI AFANASIEVNA	Capítulo de un Libro	2016	9786070281440
8	Resolution improvement of accelerometers measurement for drones in agricultural applications	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico, F.N. et al.	Conferenc e Paper	2016	9781509034741
9	High resolution measurement of physical variables change for INS	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico, F.N. et al.	Conferenc e Paper	2016	9781509008735
10	Instability measurement in time-frequency references used on autonomous navigation systems	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico F.N. et al.	Conferenc e Paper	2015	9781467375542
11	Rational approximations principle for frequency shifts measurement in frequency domain sensors	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico F.N. et al.	Conferenc e Paper	2015	9781479917624
12	Acceleration measurement improvement by application of novel frequency measurement technique for FDS based INS	VITALI PETRANOVSKI AFANASIEVNA Murrieta-Rico F.N. Hernandez-Balbuena D. et al.	Conferenc e Paper	2014	9781479923991
13	Monosized sphere packing approach in the nanoporous structure modeling	VITALI PETRANOVSKI AFANASIEVNA Burtseva L. Pestryakov A.	Conferenc e Paper	2012	9781467317702
14	Ceria-zirconia-alumina mixed oxides prepared by the organic-free sol-gel technique	VITALI PETRANOVSKI AFANASIEVNA SERGIO FUENTES MOYADO Frolova E. et al.	Capítulo de un Libro	2005	9789812701879



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15	Neutralization of gas emissions on foam-metal catalysts	VITALI PETRANOVSKI AFANASIEVNA Pestryakov A.N. Lunin V.V.	Conferenc e Paper	2004	0780383834
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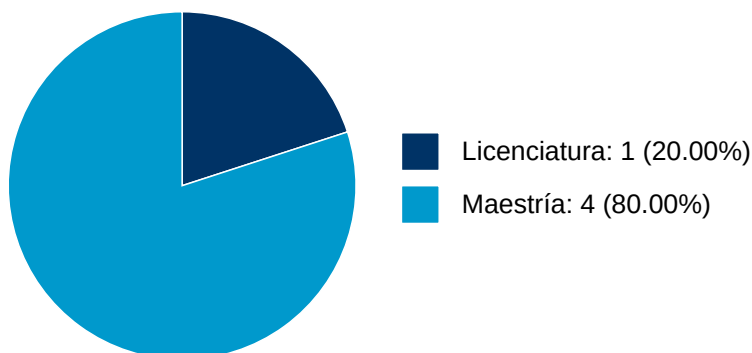
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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	NANOMATERIALES I: SINTESIS	Centro de Nanociencias y Nanotecnología en la UNAM	10	2014-1
2	Maestría	TEMAS SELECTOS DE MATERIALES CERAMICOS	Instituto de Investigaciones en Materiales	1	2012-2
3	Maestría	TEMAS SELECTOS DE PROCESOS	Facultad de Química	1	2009-1
4	Maestría	TEMAS SELECTOS DE PROCESOS	Facultad de Química	1	2009-1
5	Maestría	TECNICAS ESPECTROSCOPICAS Y TERMICAS	Instituto de Investigaciones en Materiales	3	2008-2



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PATENTES

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FUENTES DE INFORMACIÓN

Internos

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2025
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2025
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2025
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

Externos

#	Información	Fuente	Sistema	Periodo
8	Documentos Indexados	Elsevier	Scopus	2008-2025
9	Documentos Indexados	Thomson Reuters	WoS	2008-2025
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2025
11	Patentes	IMPI	SIGA	2008-2024