

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Electron acceptor design for 2D/2D iodinene/carbon nitride heterojunction boosting charge transfer and CO2 photoreduction. Chemical Engineering Journal, 2022, 433, 133594. | 6.6 | 11 |
| 2 | Activation of peroxydisulfate by defect-rich CuO nanoparticles supported on layered MgO for organic pollutants degradation: An electron transfer mechanism. Chemical Engineering Journal, 2022, 431, 134026. | 6.6 | 29 |
| 3 | Electrochemical CO2 reduction in membrane-electrode assemblies. CheM, 2022, 8, 663-692. | 5.8 | 86 |
| 4 | Laser-Induced N- and B-Codoped Graphene Nanozymes with Intrinsic Peroxidase-Like Activities for Bactericidal Application. ACS Sustainable Chemistry and Engineering, 2022, 10, 2750-2760. | 3.2 | 18 |
| 5 | New Undisputed Evidence and Strategy for Enhanced Latticeâ€Oxygen Participation of Perovskite Electrocatalyst through Cation Deficiency Manipulation. Advanced Science, 2022, 9, e2200530. | 5.6 | 75 |
| 6 | Regulating the reaction zone of electrochemical CO2 reduction on gas-diffusion electrodes by distinctive hydrophilic-hydrophobic catalyst layers. Applied Catalysis B: Environmental, 2022, 310, 121362. | 10.8 | 21 |
| 7 | Composite cathodes for protonic ceramic fuel cells: Rationales and materials. Composites Part B: Engineering, 2022, 238, 109881. | 5.9 | 59 |
| 8 | Stabilizing bienzymatic cascade catalysis via immobilization in ZIF-8/GO composites obtained by GO assisted co-growth. Colloids and Surfaces B: Biointerfaces, 2022, 217, 112585. | 2.5 | 6 |
| 9 | Unveiling the effects of dimensionality of tin oxide-derived catalysts on CO ₂ reduction by using gas-diffusion electrodes. Reaction Chemistry and Engineering, 2021, 6, 345-352. | 1.9 | 20 |
| 10 | Catalysis based on ferroelectrics: controllable chemical reaction with boosted efficiency. Nanoscale, 2021, 13, 7096-7107. | 2.8 | 27 |
| 11 | Gas diffusion electrodes (GDEs) for electrochemical reduction of carbon dioxide, carbon monoxide, and dinitrogen to value-added products: a review. Energy and Environmental Science, 2021, 14, 1959-2008. | 15.6 | 243 |
| 12 | The controllable synthesis of urchin-shaped hierarchical superstructure MOFs with high catalytic activity and stability. Chemical Communications, 2021, 57, 8758-8761. | 2.2 | 10 |
| 13 | Revealing cracking and breakage behaviours of gibbsite particles. Ceramics International, 2021, 47, 4625-4632. | 2.3 | 1 |
| 14 | Flexible A-site doping La0.6-xMxSr0.4Co0.2Fe0.8O3 (M=Ca, Ba, Bi; x=0, 0.1, 0.2) as novel cathode material for intermediate-temperature solid oxide fuel cells: A first-principles study and experimental exploration. Journal of Power Sources, 2021, 490, 229564. | 4.0 | 24 |
| 15 | Understanding the Effects of Anion Interactions with Ag Electrodes on Electrochemical CO 2 Reduction in Choline Halide Electrolytes. ChemSusChem, 2021, 14, 2601-2611. | 3.6 | 5 |
| 16 | Highâ€Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. Small, 2021, 17, e2101573. | 5.2 | 128 |
| 17 | Shape-tuned electrodeposition of bismuth-based nanosheets on flow-through hollow fiber gas diffusion electrode for high-efficiency CO2 reduction to formate. Applied Catalysis B: Environmental, 2021, 286, 119945. | 10.8 | 77 |
| 18 | Improved enzymatic activity by oriented immobilization on graphene oxide with tunable surface heterogeneity. Composites Part B: Engineering, 2021, 216, 108788. | 5.9 | 32 |

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|----|---|------|-----------|
| 19 | Improved adenylate cyclase activity via affinity immobilization onto co-modified GO with bio-inspired adhesive and PEI. Colloids and Surfaces B: Biointerfaces, 2021, 205, 111888. | 2.5 | 13 |
| 20 | Toward controlled geometric structure and surface property heterogeneities of TiO2 for lipase immobilization. Process Biochemistry, 2021, 110, 118-128. | 1.8 | 2 |
| 21 | Stand-alone asymmetric hollow fiber gas-diffusion electrodes with distinguished bronze phases for high-efficiency CO2 electrochemical reduction. Applied Catalysis B: Environmental, 2021, 298, 120538. | 10.8 | 35 |
| 22 | Crystal Facet Engineering of Copper-Based Metal–Organic Frameworks with Inorganic Modulators. Crystal Growth and Design, 2021, 21, 926-934. | 1.4 | 16 |
| 23 | Catalyst–Electrolyte Interactions in Aqueous Reline Solutions for Highly Selective Electrochemical CO ₂ Reduction. ChemSusChem, 2020, 13, 304-311. | 3.6 | 29 |
| 24 | Advances and challenges in electrochemical CO ₂ reduction processes: an engineering and design perspective looking beyond new catalyst materials. Journal of Materials Chemistry A, 2020, 8, 1511-1544. | 5.2 | 305 |
| 25 | Electrochemical Reduction of CO ₂ to Ethane through Stabilization of an Ethoxy Intermediate. Angewandte Chemie, 2020, 132, 19817-19821. | 1.6 | 33 |
| 26 | Interfacial microenvironment for lipase immobilization: Regulating the heterogeneity of graphene oxide. Chemical Engineering Journal, 2020, 394, 125038. | 6.6 | 28 |
| 27 | High-performance metal-organic framework-perovskite hybrid as an important component of the air-electrode for rechargeable Zn-Air battery. Journal of Power Sources, 2020, 468, 228377. | 4.0 | 52 |
| 28 | Efficient organic enrichment from sludge filtrate via a forward osmosis membrane process. Journal of Environmental Chemical Engineering, 2020, 8, 104042. | 3.3 | 9 |
| 29 | Interfacial engineering of a polymer–MOF composite by <i>in situ</i> vitrification. Chemical Communications, 2020, 56, 3609-3612. | 2.2 | 43 |
| 30 | From scheelite BaMoO4 to perovskite BaMoO3: Enhanced electrocatalysis toward the hydrogen evolution in alkaline media. Composites Part B: Engineering, 2020, 198, 108214. | 5.9 | 46 |
| 31 | Cracking behaviour and mechanism at grain boundary of gibbsite during calcination. Ceramics International, 2020, 46, 12067-12072. | 2.3 | 2 |
| 32 | Direct evidence of boosted oxygen evolution over perovskite by enhanced lattice oxygen participation. Nature Communications, 2020, 11, 2002. | 5.8 | 366 |
| 33 | Electrochemical Reduction of CO ₂ to Ethane through Stabilization of an Ethoxy Intermediate. Angewandte Chemie - International Edition, 2020, 59, 19649-19653. | 7.2 | 122 |
| 34 | Modulated Sn Oxidation States over a Cu ₂ O-Derived Substrate for Selective Electrochemical CO ₂ Reduction. ACS Applied Materials & Interfaces, 2020, 12, 22760-22770. | 4.0 | 36 |
| 35 | Toward Excellence of Transition Metalâ€Based Catalysts for CO ₂ Electrochemical Reduction: An Overview of Strategies and Rationales. Small Methods, 2020, 4, 2000033. | 4.6 | 60 |
| 36 | Tuning the Product Selectivity of the Cu Hollow Fiber Gas Diffusion Electrode for Efficient CO ₂ Reduction to Formate by Controlled Surface Sn Electrodeposition. ACS Applied Materials & Interfaces, 2020, 12, 21670-21681. | 4.0 | 69 |

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|----|--|------|-----------|
| 37 | Perovskite Materials in Electrocatalysis. Materials Horizons, 2020, , 209-250. | 0.3 | 4 |
| 38 | Effect of oxidation and silane surface treatments of coal powders on relative permeability in packed coal beds. Journal of Natural Gas Science and Engineering, 2019, 69, 102931. | 2.1 | 5 |
| 39 | A Surfactantâ€Free and Scalable General Strategy for Synthesizing Ultrathin Twoâ€Dimensional Metal–Organic Framework Nanosheets for the Oxygen Evolution Reaction. Angewandte Chemie, 2019, 131, 13699-13706. | 1.6 | 64 |
| 40 | A Surfactantâ€Free and Scalable General Strategy for Synthesizing Ultrathin Twoâ€Dimensional Metal–Organic Framework Nanosheets for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 13565-13572. | 7.2 | 205 |
| 41 | High-Performance PEDOT:PSS Flexible Thermoelectric Materials and Their Devices by Triple Post-Treatments. Chemistry of Materials, 2019, 31, 5238-5244. | 3.2 | 153 |
| 42 | Fine-Tuning the Coordinatively Unsaturated Metal Sites of Metal–Organic Frameworks by Plasma Engraving for Enhanced Electrocatalytic Activity. ACS Applied Materials & Interfaces, 2019, 11, 44300-44307. | 4.0 | 53 |
| 43 | Selectivity Control for Electrochemical CO ₂ Reduction by Charge Redistribution on the Surface of Copper Alloys. ACS Catalysis, 2019, 9, 9411-9417. | 5.5 | 172 |
| 44 | Gas storage potential and electrohydraulic discharge (EHD) stimulation of coal seam interburden from the Surat Basin. International Journal of Coal Geology, 2019, 208, 24-36. | 1.9 | 14 |
| 45 | Carbon Monoliths by Assembling Carbon Spheres for Gas Adsorption. Industrial & Engineering Chemistry Research, 2019, 58, 4957-4969. | 1.8 | 14 |
| 46 | Surface functionalization of graphene oxide by amino acids for Thermomyces lanuginosus lipase adsorption. Journal of Colloid and Interface Science, 2019, 546, 211-220. | 5.0 | 38 |
| 47 | Anisotropic coal permeability estimation by determining cleat compressibility using mercury intrusion porosimetry and stress–strain measurements. International Journal of Coal Geology, 2019, 205, 75-86. | 1.9 | 31 |
| 48 | Characterisation and evaluation of shockwave generation in water conditions for coal fracturing. Journal of Natural Gas Science and Engineering, 2019, 66, 255-264. | 2.1 | 22 |
| 49 | Defectâ€Induced Pt–Co–Se Coordinated Sites with Highly Asymmetrical Electronic Distribution for Boosting Oxygenâ€Involving Electrocatalysis. Advanced Materials, 2019, 31, e1805581. | 11.1 | 168 |
| 50 | Cracking Behavior and Mechanism of Gibbsite Crystallites during Calcination. Crystal Research and Technology, 2019, 54, 1800201. | 0.6 | 3 |
| 51 | Orientated growth of copper-based MOF for acetylene storage. Chemical Engineering Journal, 2019, 357, 320-327. | 6.6 | 36 |
| 52 | Co-localization of glucose oxidase and catalase enabled by a self-assembly approach: Matching between molecular dimensions and hierarchical pore sizes. Food Chemistry, 2019, 275, 197-205. | 4.2 | 21 |
| 53 | Combined Adsorption and Covalent Linking of Paclitaxel on Functionalized Nano-Graphene Oxide for Inhibiting Cancer Cells. ACS Omega, 2018, 3, 2396-2405. | 1.6 | 18 |
| 54 | A phase inversion polymer coating to prevent swelling and spalling of clay fines in coal seam gas wells. International Journal of Coal Science and Technology, 2018, 5, 179-190. | 2.7 | 4 |

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|----|---|------|-----------|
| 55 | Affinity induced immobilization of adenylate cyclase from the crude cell lysate for ATP conversion. Colloids and Surfaces B: Biointerfaces, 2018, 164, 155-164. | 2.5 | 16 |
| 56 | Tuning oxygen vacancies in two-dimensional iron-cobalt oxide nanosheets through hydrogenation for enhanced oxygen evolution activity. Nano Research, 2018, 11, 3509-3518. | 5.8 | 167 |
| 57 | Pore channel surface modification for enhancing anti-fouling membrane distillation. Applied Surface Science, 2018, 443, 217-226. | 3.1 | 48 |
| 58 | A nitrogen-doped electrocatalyst from metal–organic framework-carbon nanotube composite. Journal of Materials Research, 2018, 33, 538-545. | 1.2 | 16 |
| 59 | Metal organic framework based mixed matrix membranes: an overview on filler/polymer interfaces. Journal of Materials Chemistry A, 2018, 6, 293-312. | 5.2 | 377 |
| 60 | Bronze alloys with tin surface sites for selective electrochemical reduction of CO ₂ . Chemical Communications, 2018, 54, 13965-13968. | 2.2 | 43 |
| 61 | Permeability enhancement of coal by chemical-free fracturing using high-voltage electrohydraulic discharge. Journal of Natural Gas Science and Engineering, 2018, 57, 1-10. | 2.1 | 28 |
| 62 | Effect of rheological properties of mesophase pitch and coal mixtures on pore development in activated carbon discs with high compressive strength. Fuel Processing Technology, 2018, 177, 219-227. | 3.7 | 19 |
| 63 | Silver-Perovskite Hybrid Electrocatalysts for Oxygen Reduction Reaction in Alkaline Media. Journal of the Electrochemical Society, 2018, 165, H524-H529. | 1.3 | 12 |
| 64 | Ultrathin Iron obalt Oxide Nanosheets with Abundant Oxygen Vacancies for the Oxygen Evolution Reaction. Advanced Materials, 2017, 29, 1606793. | 11.1 | 1,144 |
| 65 | Anti-fouling membranes by manipulating surface wettability and their anti-fouling mechanism. Desalination, 2017, 413, 127-135. | 4.0 | 108 |
| 66 | Rational Design of a Waterâ€Storable Hierarchical Architecture Decorated with Amorphous Barium Oxide and Nickel Nanoparticles as a Solid Oxide Fuel Cell Anode with Excellent Sulfur Tolerance. Advanced Science, 2017, 4, 1700337. | 5.6 | 74 |
| 67 | Effect of sonication and hydrogen peroxide oxidation of carbon nanotube modifiers on the microstructure of pitch-derived activated carbon foam discs. Carbon, 2017, 124, 142-151. | 5.4 | 24 |
| 68 | Enabling Process Intensification by 3 D Printing of Catalytic Structures. ChemCatChem, 2017, 9, 4132-4138. | 1.8 | 39 |
| 69 | Activated carbon derived from bio-waste hemp hurd and retted hemp hurd for CO2 adsorption. Composites Communications, 2017, 5, 27-30. | 3.3 | 35 |
| 70 | The preparation of activated carbon discs from tar pitch and coal powder for adsorption of CO 2 , CH 4 and N 2. Microporous and Mesoporous Materials, 2017, 238, 19-26. | 2.2 | 45 |
| 71 | Surface-etched halloysite nanotubes in mixed matrix membranes for efficient gas separation. Separation and Purification Technology, 2017, 173, 63-71. | 3.9 | 50 |
| 72 | Highly active nickel–cobalt/nanocarbon thin films as efficient water splitting electrodes. Nanoscale, 2016, 8, 18507-18515. | 2.8 | 56 |

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| 73 | Smart, Porous Polymer Coatings to Bind Clay Minerals in Coal Bed Methane Wells. , 2016, , . | | Ο |
| 74 | Ionic Liquids as the MOFs/Polymer Interfacial Binder for Efficient Membrane Separation. ACS Applied Materials & Interfaces, 2016, 8, 32041-32049. | 4.0 | 157 |
| 75 | Propylene/propane selective mixed matrix membranes with grape-branched MOF/CNT filler. Journal of Materials Chemistry A, 2016, 4, 6084-6090. | 5.2 | 65 |
| 76 | Amphiphobic PVDF composite membranes for anti-fouling direct contact membrane distillation. Journal of Membrane Science, 2016, 505, 61-69. | 4.1 | 141 |
| 77 | Mixed-Matrix Membranes with Metal–Organic Framework-Decorated CNT Fillers for Efficient CO ₂ Separation. ACS Applied Materials & Interfaces, 2015, 7, 14750-14757. | 4.0 | 124 |
| 78 | Synthesis and characterization of three amino-functionalized metal–organic frameworks based on the 2-aminoterephthalic ligand. Dalton Transactions, 2015, 44, 8190-8197. | 1.6 | 72 |
| 79 | High activity electrocatalysts from metal–organic framework-carbon nanotube templates for the oxygen reduction reaction. Carbon, 2015, 82, 417-424. | 5.4 | 140 |
| 80 | Calcium Looping for CO ₂ Capture at a Constant High Temperature. Energy & Fuels, 2014, 28, 307-318. | 2.5 | 43 |
| 81 | Mixed Matrix Membranes with Strengthened MOFs/Polymer Interfacial Interaction and Improved Membrane Performance. ACS Applied Materials & amp; Interfaces, 2014, 6, 5609-5618. | 4.0 | 163 |
| 82 | In situ synthesis of zeolitic imidazolate frameworks/carbon nanotube composites with enhanced CO2 adsorption. Dalton Transactions, 2014, 43, 7028. | 1.6 | 108 |
| 83 | Facile synthesis of nitrogen doped reduced graphene oxide as a superior metal-free catalyst for oxidation. Chemical Communications, 2013, 49, 9914. | 2.2 | 294 |
| 84 | Hierarchically structured metal–organic framework/vertically-aligned carbon nanotubes hybrids for CO2 capture. RSC Advances, 2013, 3, 25360. | 1.7 | 51 |
| 85 | Difference in the cooperative interaction between carbon nanotubes and Ru particles loaded on their internal/external surface. RSC Advances, 2013, 3, 12641. | 1.7 | 18 |
| 86 | Two‣tep Boron and Nitrogen Doping in Graphene for Enhanced Synergistic Catalysis. Angewandte Chemie - International Edition, 2013, 52, 3110-3116. | 7.2 | 863 |
| 87 | Mixed matrix membranes incorporated with size-reduced Cu-BTC for improved gas separation. Journal of Materials Chemistry A, 2013, 1, 6350. | 5.2 | 140 |
| 88 | Halloysite Nanotube Supported Ru Nanocatalysts Synthesized by the Inclusion of Preformed Ru Nanoparticles for Preferential Oxidation of CO in H ₂ -Rich Atmosphere. Journal of Physical Chemistry C, 2013, 117, 4141-4151. | 1.5 | 46 |
| 89 | Study on the Controllable Scale-Up Growth of Vertically-Aligned Carbon Nanotube Arrays. Journal of Nanoscience and Nanotechnology, 2012, 12, 2722-2732. | 0.9 | 3 |
| 90 | Vertically-aligned carbon nanotube membranes for hydrogen separation. RSC Advances, 2012, 2, 5329. | 1.7 | 33 |

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| 91 | Enhanced hydrogen separation by vertically-aligned carbon nanotube membranes with zeolite imidazolate frameworks as a selective layer. RSC Advances, 2012, 2, 11793. | 1.7 | 15 |
| 92 | Porous Polyethersulfone-Supported Zeolitic Imidazolate Framework Membranes for Hydrogen Separation. Journal of Physical Chemistry C, 2012, 116, 13264-13270. | 1.5 | 96 |
| 93 | The preparation, structures, and properties of poly(vinylidene fluoride)/multiwall carbon nanotubes nanocomposites. Journal of Applied Polymer Science, 2012, 125, E592. | 1.3 | 19 |
| 94 | Amorphous Iron Oxide Decorated 3D Heterostructured Electrode for Highly Efficient Oxygen Reduction. Chemistry of Materials, 2011, 23, 4193-4198. | 3.2 | 80 |
| 95 | Deactivation and Regeneration of Oxygen Reduction Reactivity on Double Perovskite Ba ₂ Bi _{0.1} Sc _{0.2} Co _{1.7} O _{6â^'<i>x</i>} Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. Chemistry of Materials, 2011, 23, 1618-1624. | 3.2 | 49 |
| 96 | Halloysite-Nanotube-Supported Ru Nanoparticles for Ammonia Catalytic Decomposition to Produce CO _{<i>x</i>} -Free Hydrogen. Energy & Fuels, 2011, 25, 3408-3416. | 2.5 | 88 |
| 97 | Novel B-site ordered double perovskite Ba ₂ Bi _{0.1} Sc _{0.2} Co _{1.7} O _{6â~'x} for highly efficient oxygen reduction reaction. Energy and Environmental Science, 2011, 4, 872-875. | 15.6 | 112 |
| 98 | Investigation of Gas Permeability in Carbon Nanotube (CNT)â^'Polymer Matrix Membranes via Modifying CNTs with Functional Groups/Metals and Controlling Modification Location. Journal of Physical Chemistry C, 2011, 115, 6661-6670. | 1.5 | 83 |
| 99 | Enhanced gas permeability by fabricating functionalized multi-walled carbon nanotubes and polyethersulfone nanocomposite membrane. Separation and Purification Technology, 2011, 78, 76-82. | 3.9 | 109 |
| 100 | A comparison study of catalytic oxidation and acid oxidation to prepare carbon nanotubes for filling with Ru nanoparticles. Carbon, 2011, 49, 2022-2032. | 5.4 | 38 |
| 101 | Evaluation and optimization of Bi1â^xSrxFeO3â^îl´perovskites as cathodes of solid oxide fuel cells. International Journal of Hydrogen Energy, 2011, 36, 3179-3186. | 3.8 | 70 |
| 102 | High performance cobalt-free perovskite cathode for intermediate temperature solid oxide fuel cells. Journal of Materials Chemistry, 2010, 20, 9619. | 6.7 | 133 |
| 103 | Evaluation of mixedâ€conducting lanthanumâ€strontiumâ€cobaltite ceramic membrane for oxygen separation. AICHE Journal, 2009, 55, 2603-2613. | 1.8 | 26 |
| 104 | Low-temperature synthesis of La0.6Sr0.4Co0.2Fe0.8O3â^'δ perovskite powder via asymmetric sol–gel process and catalytic auto-combustion. Ceramics International, 2009, 35, 2809-2815. | 2.3 | 13 |
| 105 | Effects of preparation methods on the oxygen nonstoichiometry, B-site cation valences and catalytic efficiency of perovskite La0.6Sr0.4Co0.2Fe0.8O3â~îî. Ceramics International, 2009, 35, 3201-3206. | 2.3 | 20 |
| 106 | Facile auto-combustion synthesis for oxygen separation membrane application. Journal of Membrane Science, 2009, 329, 219-227. | 4.1 | 13 |
| 107 | Double-site yttria-doped Sr1â^'xYxCo1â^'yYyO3â^'δ perovskite oxides as oxygen semi-permeable membranes. Journal of Alloys and Compounds, 2009, 474, 477-483. | 2.8 | 28 |
| 108 | Oxygen selective membranes based on B-site cation-deficient (Ba0.5Sr0.5)(Co0.8Fe0.2)yO3â^`î´ perovskite with improved operational stability. Journal of Membrane Science, 2008, 318, 182-190. | 4.1 | 47 |

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| 109 | Systematic investigation on new SrCo1â^'yNbyO3â^'δ ceramic membranes with high oxygen semi-permeability. Journal of Membrane Science, 2008, 323, 436-443. | 4.1 | 114 |
| 110 | Synthesis, characterization and evaluation of cation-ordered LnBaCo2O5+ as materials of oxygen permeation membranes and cathodes of SOFCs. Acta Materialia, 2008, 56, 4876-4889. | 3.8 | 461 |
| 111 | Facile autocombustion synthesis of La0.6Sr0.4Co0.2Fe0.8O3â^'î´ (LSCF) perovskite via a modified complexing sol–gel process with NH4NO3 as combustion aid. Journal of Alloys and Compounds, 2008, 450, 338-347. | 2.8 | 38 |
| 112 | Properties and performance of A-site deficient (Ba0.5Sr0.5)1â^'xCo0.8Fe0.2O3â^'δ for oxygen permeating membrane. Journal of Membrane Science, 2007, 306, 318-328. | 4.1 | 111 |