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794	P-EF-029	Mohd Razali Shamsuddin	Promoting dry reforming of CH ₄ via bifunctional NiO/dolomite catalysts for production of hydrogen rich syngas
796	P-EC-017	Yoshiumi Kohno	Highly dispersed hematite as a visible light-driven photocatalyst for water purification
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818	P-MD-014	Sung-Woo Park	Synthesis and characterization of metal free heteroatom-doped reduced graphene oxides for electrocatalytic applications
821	P-RK-005	Liyuan Zhang	H ₂ activation on ZnO and reactivity toward CO hydrogenation

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823	P-MD-016	R. Nandini Devi	Porous silica encapsulated functionalised noble and base metal catalysts
824	P-IF-015	Bing-Hung Chen	Etherification of glycerol with gamma-alumina supported strontium catalysts for glycerol oligomers
826	P-IF-016	Masaki Kobayashi	Iridium complex catalyzed C2 extension of primary alcohols with ethanol
828	P-MD-017	Mithun Sarker	Conversion of γ into SSZ-13 zeolite, in the absence of extra silica sources and seed crystals, with N,N,N-dimethylethylcyclohexylammonium bromide as a structure directing agent, and direct conversion of ethylene into propylene with the SSZ-13 zeolite
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831	P-IF-017	Wonjin Jeon	Effects of CU-MN mixed oxide catalysts on alkaline wet oxidation of lignin to vanillin
832	P-RK-006	Ramasamy Shanmugam	B-site and o-site engineered layered Ba ₅ Ta ₄ O ₁₅ for efficient charge separation and visible light photocatalytic water splitting
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837	P-EF-033	Yusuke Kataoka	Potential hydrogen evolution ability and reaction mechanism of paddlewheel-type dirhodium complex
838	P-EF-034	Kazuki Arakawa	photochemical hydrogen evolution from water catalyzed by dimer-of-dimers-type tetra-rhodium complexes
840	P-MD-018	Cheng-Feng Lee	A strategy for efficiently selective oxidation of benzene to phenol by atomically dispersed iron based mesoporous silica nanoparticle
843	P-EF-035	Diane Clare Tiongco	One-step synthesis of hollow MnFe ₂ O ₄ nanoparticles for methanol electrooxidation
849	P-IF-018	Changwei Hu	Synergistic effect of acetonitrile and isopropanol in the one-step production of 2,5-dichlorophenol from 1,4-dichlorobenzene over Fe/AC
851	P-RK-007	Xixi Ma	Kinetic parameter estimation of trickle-bed reactor for hydrodesulfurization of siberian crude oil
853	P-EF-036	Fuzhen Zhao	CO ₂ hydrogenation to methanol on ZnO/ZrO ₂ catalysts: effects of zirconia phases
860	P-EC-019	Byoung Joon Ahn	Hydrodechlorination of chlorophenols over palladium nanoparticles supported on graphene and its reaction mechanism
863	P-EF-037	Li-Yu Ting	Superior performance of inserting fluorene/thiophene-based conjugated polymer photocatalysts for hydrogen evolution from water
864	P-MD-019	Wei-Cheng Lin	Design and synthesis of iridium-complex-based polymer dots as photocatalysts for visible-light-driven hydrogen evolution
865	P-EF-038	Seunghun Shin	Dehydrogenation of ammonia borane on cotton structured nano SiO ₂ catalyst
867	P-EF-039	Chanho Pak	Hydrogen evolution reaction of palladium supported on sulfur doped ordered mesoporous carbon
869	P-IF-019	Anusorn Seubsai	Production of glycerol carbonate from glycerol over modified sodium aluminate mixed calcium oxide or magnesium oxide catalysts
877	P-IF-020	Worapinit Tiyyatha	Synthesis of value-added hydrocarbons via oxidative coupling of methane over Na ₂ WO ₄ -TiO ₂ -MnOx/SiO ₂ catalysts doped with alkaline or alkaline earth metal oxides
878	P-EF-040	Yoonyoung Kim	Strain effects induced by Au dispersion into SrTiO ₃ for increasing activity of water splitting
881	P-EF-041	Masato Akatsuka	Study on the mechanism of photocatalytic reduction of CO ₂ over Ga ₂ O ₃ photocatalyst
883	P-EF-042	Muneaki Yamamoto	Role of silver co-catalyst on photocatalytic carbon dioxide reduction over gallium oxide

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886	P-MD-020	Zhaorui Li	Oxidation of ceria by hydrogen with CE-H formation
887	P-EC-020	Bezawit Zerihun Desalegn	Self-supported NiP layered FeCoP@CC: A high-performance electrode for the oxygen evolution reaction
892	P-IF-021	Rakhi Vishwakarma	Copper supported Mg-Al hydrotalcite derived oxide catalyst for the synthesis of enol carbamates
894	P-EC-021	Ryota Ito	CO ₂ reduction activity and crystalline structure of Ga ₂ O ₃ supported with various metal oxides
902	P-EF-044	Xinhua Gao	Combined dry reforming and partial oxidation of methane on nanostructured Ni-based catalyst
907	P-EF-045	Kiya Ogasawara	Nickel supported on calcium imide as an efficient catalyst for ammonia decomposition
909	P-EF-046	Jincan Kang	Direct transformation of syngas into C ₂ + oxygenates
927	P-EF-047	Sangbeom Yoo	Hydrogen production by steam reforming of ethanol over K promoted Co/Al ₂ O ₃ -Cao xerogel catalysts
928	P-MD-021	Alexandra Barnes	Tuning of catalytic sites in Pt/TiO ₂ catalysts for chemoselective hydrogenation of 3-nitrostyrene
930	P-EF-048	Jian Cui	Property of Ni-SDC-BCY Anodes for SOFC with H ₂ and NH ₃ Fuels
932	P-EF-049	Jeongin Mun	Decomposition reaction of endothermic fuel using washcoating HZSM-5 on the metal foam and hollow fiber
933	P-EC-022	Kokoro Yoshioka	Effect of silver co-catalyst for photocatalytic CO ₂ reduction with water over silver loaded gallium oxide
935	P-EF-050	Dalsan Yoo	Decomposition of hydroxylammonium nitrate solution over platinum/honeycomb catalysts
938	P-EF-051	Youri Park	Effect of catalyst pore size on hydrogenation of multi-cyclic hydrocarbon
939	P-MD-022	Palang Bumroongsakulsawat	Pelletization of nickel catalyst for hydrogen production from glycerol steam reforming
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948	P-EF-053	Hwiram Jeong	Activity comparison of supported Ni ₂ P and Pt catalysts in the hydrodeoxygenation of palm oil
949	P-EF-054	Pattaraporn Kim-Lohsoontorn	Thermally self-sustained double reactor coupling hydrogen production from glycerol reforming and methanol production from carbon dioxide and generated hydrogen
953	P-EC-023	Yaxin Yu	Activity enhancement of WO ₃ modified Fe ₂ O ₃ catalyst for the selective catalytic reduction of NO _x by NH ₃
956	P-EF-055	Daiki Kitajima	Real time measurements of UV-vis diffuse reflectance of silver co-catalyst on gallium oxide photocatalyst
962	P-IF-022	Suttichai Assabumrungrat	A CFD model of a scaled-up hydrogen production from glycerol steam reforming in fixed bed reactor
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975	P-EF-059	Fumiya Nakano	Selectivity and durability of silica monolayer catalyst for dealkylation of alkyl polycyclic aromatics in vacuum gas oil
976	P-MD-023	Keigo Kanehara	Position of cobalt species on mfi zeolite and its influence on catalytic activity for methylation of benzene with methane

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978	P-MD-025	Jae-Chan Kim	Electrospun hollow cobalt phosphide nanofiber electrocatalysts for hydrogen evolution reaction
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991	P-EF-060	Tomoya Ishibashi	Selective CO ₂ reduction to formic acid with semiconductor photocatalyst and biocatalyst
992	P-EF-061	Yusuke Minami	Selective hydrogen production catalyzed by platinum nano particles dispersed by polyvinylpyrrolidone based on formate decomposition
994	P-EF-062	Heejung Kong	Laser annealing of copper oxide/zinc oxide heterojunction for enhanced photocatalytic hydrogen generation
995	P-EF-063	Young-Eun Kim	Effect of calcination temperature on the catalytic activity of alumina in 1-octanol dehydration
996	P-IF-024	Chansong Kim	Highly selective synthesis of acetonitrile in the reaction of ammonia with ethanol over Ni/ZrO ₂ catalysts
998	P-MD-026	Ji Hun Mun	Structural transformation of monoclinic ZrO ₂ to tetragonal phase by Si addition and its catalytic activity in iso-propanol decomposition
999	P-EF-064	Mai Iijima	Fabrication of layered photoanode using roll press method
1000	P-EF-065	Mizuki Ito	Fabrication of BaTaO ₂ N/Ti photoanodes by roll press method and calcination
1004	P-EF-066	Kuen-Song Lin	Preparation and characterization of PDVB-based solid acid catalysts for biodiesel production via transesterification of palmitic oil
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1019	P-IF-025	Ganapati Yadav	Synthesis and application of novel NiMoK/TS-1 for selective conversion of fatty acid methyl esters/ triglycerides to olefins.
1030	P-IF-026	Jian Zhang	High-efficient hydrogen transfer strategy for 1, 2, 3, 4-tetrahydroquinolines synthesis on nano-sized ni particles
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1033	P-EF-068	Adid Adep Dwiatmoko	Effects of metal or metal oxide additives on the hydrodeoxygenation of guaiacol using TiO ₂ -supported palladium catalysts
1035	P-EF-069	Waleeporn Donphai	Improvement of nickel over silica-aluminosilicate support for hydrogen production through methane cracking reaction
1041	P-RK-010	Guodong Qi	Direct observation of open tin sites in SN-beta zeolites by solid-state nmr spectroscopy
1043	P-EC-024	Jun-Ichi Nishigaki	Mutual redox conversion of NAD ⁺ and nadh by gold catalysts
1045	P-EC-025	Ryo Nishida	Synthesis and evaluation of sphere-like CuO films on conductive substrates by direct annealing method
1046	P-EC-026	Chaval Sriwong	Facile and green one pot synthesis of TiO ₂ -reduced graphene oxide nanocomposites for photocatalytic degradation of methylene blue over natural sunlight irradiation
1054	P-MD-027	Naoki Shiraishi	Highly active and stable catalyst combining platinum, iron and zeolite for isobutane dehydrogenation
1055	P-EF-070	Thanatchai Meemanah	Synthesis of biofuel precursor via aldol condensation of furfural and 2-butanone over acid-base catalysts
1056	P-MD-028	Yanru Zhu	Well-defined surface sites in planar defects-rich Cu particles for the selective hydro-deoxygenation of furfural to cyclopentanone
1058	P-EF-071	Andrew Chien	Catalysis of nonstoichiometric perovskite in methane oxidation
1059	P-EC-027	Masatomo Hattori	Tree way catalytic properties and microstructures of metallic glass driven composite catalysts
1066	P-EF-072	Kyung-Ran Hwang	Direct production of renewable liquid fuel from microalgae using supercritical solvent

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1072	P-EC-029	Virendra Rathod	Green synthesis of amyl levulinate using lipase in solvent free system
1073	P-IF-027	Kanori Takahashi	One pot conversion of glycerol to lactic acid over supported platinum catalyst
1077	P-IF-028	Hyoung Lim Koh	Activity and characteristics of Pt-Sn/Al ₂ O ₃ catalyst regenerated with HCl treatment for propane dehydrogenation
1087	P-EF-073	Shunottara Jogdand	Development and fabrication of hollow fiber reactor for Ni/Al ₂ O ₃ catalyzed CO ₂ hydrogenation to methane
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1101	P-EC-030	Yeongju Seong	Bifunctional and one-component organocatalysts for synthesis of cyclic carbonate under mild conditions
1103	P-EC-031	Jieun Lee	Polyphenol-based organocatalysts for CO ₂ -based cyclic carbonates at ambient temperature and pressure
1105	P-EF-075	Ying-Chen Chen	Efficient hydrogen generation by incorporating ZnS on flower-like CuS as composite photocatalysts
1107	P-EF-076	Chieh-Lin Huang	Enhanced hydrogen production activity of ZnS/macrocylic metal complex photocatalysts
1109	P-EF-077	Neha Neha	Effect of calcination strategies and role of space velocity in catalytic performance of NCO catalyst for CO oxidation: an experimental study
1111	P-RK-011	Akira Nakayama	Reaction mechanism of the direct synthesis of dimethyl carbonate from carbon dioxide and methanol over metal-oxide catalysts: a first-principle study
1121	P-EF-078	Katsutoshi Sato	CO ₂ conversion to CH ₄ over cerium - zirconium composite oxide supported ruthenium catalyst
1130	P-IF-030	Chombongkot Sricharoen	The comparative study of side reaction occurred on tin silica (Sn/SiO ₂) and K-PtSn/Al ₂ O ₃ during propane dehydrogenation reaction
1132	P-EF-079	Hyunjoo Lee	One-pot synthesis of ZIF-7 supported on Zn(BeIM)OAc and its enhanced catalytic activity in the methoxycarbonylation of aniline with dimethyl carbonate
1145	P-MD-030	Tomomi Hirai	Visible-light responsive photocatalytic activity of rutile-type titanium oxide nanocrystals modified with various transition metals
1149	P-EC-032	Stéphane Siffert	VOCs removal by adsorption/oxidation process over Pt or Pd on hierarchical NaY zeolite materials
1152	P-IF-031	Dong Ju Moon	Calcium aluminate modified nickel based catalysts for steam CO ₂ reforming of methane for applications in GTL-FPSO process
1153	P-EF-080	Punampriya Borgohain	Low temperature catalyst for steam reforming of methanol
1156	P-MD-031	Chih-Wei Tang	Designing of sensitive nanostructured manganese dioxide catalysts and used in the detection of VOCs pollutants
1157	P-MD-032	Young-Hoon Cho	Identification of Pd dispersion enhancement by Na addition on TiO ₂ support for direct synthesis of H ₂ O ₂
1183	P-EF-081	No-Kuk Park	Catalytic behavior of magnesium oxide and magnesium aluminate on CO ₂ hydrogenation
1184	P-IF-032	Ganapati Yadav	Process intensification in microwave assisted lipase catalysed solvent-free synthesis of nonyl caprylate

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1196	P-IF-034	Thanh Nguyen	High-throughput experimentation in oxidative coupling of methane
1197	P-MD-033	Xuejiao Wei	The shape effect of La ₂ O ₂ CO ₃ in Pd/La ₂ O ₂ CO ₃ catalyst for selective hydrogenation of cinnamaldehyde
1201	P-IF-035	Geunjae Kwak	Catalyst development for selective conversion of syngas into aromatics
1205	P-MD-034	Kornkamon Meesombad	Relationships among chemical composition, microstructure, bandgap energy and catalytic performance of Ti-doped tin oxide synthesized by solution combustion technique
1215	P-EF-082	Hiroyoshi Hoshino	Development of platinum and iron CO-loaded zeolite for propane dehydrogenation
1239	P-EF-083	Nino Rinaldi	Pillarization of bentonite using metals Al and Sn to prepare solid acid catalysts for upgrading process of bio-oil
1242	P-EF-084	Ganapati Yadav	Interesterification of triglycerides with methyl acetate for the CO-production of biodiesel and triacetin using hydrotalcite as a heterogeneous base catalyst
1243	P-MD-035	Kanungnit Chawong	Boehmite-supported aluminum catalyst improved mechanical strength and thermal stability for esterification of lactic acid with 1-butanol
1244	P-EF-085	Ashish Unnarkat	Carbonized ZIF supported catalyst for oxidation of cyclohexane
1249	P-EF-086	Ebrahim Mohiuddin	Activation of light alkanes for the production of longer range hydrocarbon fuels
1255	P-EF-087	Ho Jin Chae	Hydrogen separation performances of zeolite and activated carbon from ammonia reforming gas
1256	P-MD-036	Shunsuke Tanaka	Development of hierarchical HZSM-5 zeolites by sequential alkaline/acid treatments and their catalytic performances for methanol-to-olefins
1267	P-EC-033	Shyam Sunder Rao	Effect of CeO ₂ morphology for NO _x reduction at low temperatures by NH ₃ -SCR
1268	P-EF-088	Young-Wan Ju	Metal embedded carbon nanofiber catalyst for oxygen reduction reaction
1276	P-EF-089	Jung Min Sohn	Study on the effect of natural minerals on the product gas composition from lignite gasification under CO-feeding of steam and CO ₂
1279	P-MD-037	Natnicha Yotpanya	The preparation of Al-MFI zeolite encapsulated metal nanoparticles via solid-state transformation
1294	P-MD-038	Di Zhou	Morphology controlled synthesis of Pt nanoparticles
1296	P-MD-039	Chuanchuan Jin	Geometrical structure of the gold-iron(III) oxide interfacial perimeter
1304	P-IF-036	Sonit Balyan	Effect of Cr over Mo/HMCM-22 catalyst for methane dehydroaromatization reaction
1307	P-EC-034	Yin Dejia	An excellent hybrid catalytic system for selective catalytic reduction of NO _x by NH ₃ at low-temperature
1309	P-IF-037	Kazuyuki Torii	Palladium-catalyzed one step introduction of amino and silyl groups to 1,3-diene by using a mild oxidation system
1310	P-EF-090	Nur Nabihah Mohammad Fauzi	Enhanced esterification of palm fatty acid distillate using superactive SO ₄ ²⁻ /SnO ₂ catalyst for biodiesel production
1313	P-EF-091	Nur Azreena Idris	Catalytic hydrodeoxygenation of oleic acid for renewable diesel production
1316	P-IF-038	Grigory Mamontov	Modified chromia-alumina catalysts for isobutane dehydrogenation: synergistic effect of Cu and Zn modifiers
1318	P-EF-092	Maria Grabchenko	Design of Ni-based catalysts supported over bulk oxides of La and Ce: influence of the composition on catalytic properties in the dry reforming of methane
1320	P-EC-035	Andrei Vodyankin	Study of silver-modified titanium dioxide photocatalysts in dye degradation under visible light

ID	Present code	Presenter	Abstract title
1322	P-IF-039	Osamu Sato	Simultaneous supercritical carbon dioxide extraction of furfural produced by catalytic conversion of xylose and xylan in high-temperature liquid water
1323	P-IF-040	Jaroslava Morávková	Consequences of proximity of non-interacting acidic centers on cracking of alkanes over aluminium rich beta zeolites
1340	P-MD-040	Sabine Valange	Mechanochemistry: toward sustainable preparation of mixed oxide catalysts for oxidation reactions
1342	P-MD-041	Ounjit Sodpiban	Strategies for the immobilization of early transition metal coordination compounds and applications in the synthesis of cyclic carbonates
1343	P-MD-042	Vatcharaporn Aomchad	Conversion of CO ₂ to cyclic carbonates catalyzed by pre-lanthanide salen complexes
1345	P-EF-093	Yuki Tani	Fabrication of all solid-state solar cells using copper indium sulfide as absorption layer
1347	P-EC-036	Baoxiang An	Selective catalytic oxidation of ammonia using nano-particulate noble metal deposited on niobium oxide
1348	P-EF-094	Le Thien An	Preparation of Ni/SiO ₂ catalysts with high Ni contents and their application
1349	P-EC-037	Yogesh Niwate	Green process for manufacturing biodegradable lab using solid waste from refinery
1352	P-IF-041	Ganapati Yadav	Catalytic oxidation of o-cresol over OMS-2 supported catalyst
1353	P-IF-042	Ganapati Yadav	Solvent-free oxidative esterification of furfural to methyl 2-furoate by using heterogeneous catalyst
1363	P-IF-043	Wen-Yueh Yu	Copolymerization of carbon dioxide and 1,4-butanediol: effect of ball milling and calcination on ceria catalysts
1364	P-MD-043	Fuya Sugiyama	Synthesis of spherical zirconia particles with bimodal pore size distributions by the solvothermal reaction of zirconium alkoxide in mixture of 1,4-butanediol and acetylacetone
1375	P-RK-013	Unalome Wetwatana	Tar steam reforming for synthesis gas production over ni-based on ceria/zirconia catalyst in a packed-bed reactor
1383	P-MD-044	Dong Hyun Lee	Carbon dioxide-based poly(ether carbonate) polyols with controlled propylene carbonate content from double metal cyanide catalyst for flexible polyurethane foams
1389	P-EF-095	Thongthai Witoon	Light olefins synthesis from CO ₂ hydrogenation over In ₂ O ₃ /ZrO ₂ admixed with SAPO-34: effects of calcination temperature of ZrO ₂
1391	P-EF-096	Kuniaki Matoba	Fabrication of copper indium sulfide photoelectrodes by electrochemical deposition method and their photoelectrochemical properties
1393	P-EF-097	Quoc Khanh Tran	Catalytic hydrodeoxygenation of guaiacol over iron and nickel catalysts
1395	P-EF-117	Vut Tongnan	CO ₂ hydrogenation to synthetic natural gas over Ni-based on ceria/chromate catalyst in a milli-packed bed reactor
1411	P-EF-098	Noppadol Panchan	Effects of silver and tin promoters on the catalytic activity of Ni/SiO ₂ double layers catalyst for methane dry reforming
1421	P-EF-099	Seung-Soo Kim	Hydrodeoxygenation of bio-oil from fast pyrolysis spent coffee waste using HZSM-5 and dolomite catalysts
1425	P-EF-100	Seung-Soo Kim	Catalytic hydrodeoxygenation of fast pyrolysis bio-oil from saccharina japonica alga for bio-oil upgrading
1426	P-IF-044	Tanyatorn Udomcharoensab	Lactic acid production from glucose using divalent transition metal oxides supported on magnesium oxide as catalysts under alkali-free additive process
1427	P-EF-101	Notsawan Swadchaipong	Industrial waste-based catalyst for co-firing combustion process
1428	P-IF-045	Wipark Anutrasakda	Properties and performance of mesoporous silica-supported nickel phosphide nanocatalysts in the one-pot transformation of cellobiose to sorbitol
1433	P-IF-046	Jianhua Liu	Carbonylative sonogashira reaction catalysed by a palladium complex bearing a pyrene-based n-heterocyclic ligand

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1437	P-EF-102	Pawnprapa Pitakjakpipop	Selective adsorption of dibenzothiophene in model diesel fuel under light irradiation system using TiO ₂ , WO ₃ -TiO ₂ , and MoO ₃ -TiO ₂
1439	P-MD-045	Raju Kumar	Understanding the surface modification of silica supported hydrotalcite oxide catalysts for the conversion of ethanol to C ₄ chemicals
1451	P-EF-103	Araya Smuthkochorn	Synthesis of sulfonated graphene oxide from petrochemical waste oil
1453	P-EF-104	Warangthat Kriprasertkul	Biocrude from hydrothermal liquefaction of oil palm and sugarcane wastes: effect of microwave-assisted wet torrefaction
1454	P-EF-105	Chutanan Muangsuwan	Catalytic hydrodeoxygenation of crude bio-oil from hydrothermal liquefaction of palm empty fruit bunch in a rotating bed reactor
1455	P-EF-106	Kasidi R. Na Nakhon	A molecular investigation of the existence of connecting region in heterojunction carbon nanotubes on the gas adsorption characteristics
1456	P-EF-107	Munsuree Kalong	Deoxygenation of palm kernel oil into bio jet fuel-range hydrocarbons over nickel-molybdenum oxide catalysts
1457	P-EF-108	Paweennut Sintuya	Facile synthesis of Ni-Ce/CeO ₂ nanorod catalyst for CO ₂ methanation
1458	P-EF-109	Thapanee Jomjaree	Facile synthesis of nanorod-high surface area CeO ₂ core@shell catalyst for CO ₂ methanation
1459	P-EF-110	Jidapa Tatiyapantarak	Development of Ni-based catalyst from kaolin for CO ₂ methanation
1460	P-EF-111	Kritchakorn Aimdate	Ceria promoted Ni/MCM-41 catalyst for hydrogenation of CO ₂ into synthetic natural gas
1461	P-EF-112	Y. Ait-lahcen	Study of CO ₂ to synthetic natural gas via methanation over NiO/Ce _{0.5} Cr _{0.5} O ₂ catalyst in a microchannel reactor
1462	P-EF-113	P. Saychoo	Oxidative coupling of methane using NaCl-Mn ₂ O ₃ based catalysts
1463	P-EF-114	M. Thanasiriruk	Optimization of operational condition for oxidative coupling methane (OCM) over Mn ₂ O ₃ based catalyst
1464	P-IF-047	Tanutporn Kamsuwan	Tuning of catalytic behaviors by oxygen cofeeding on ethanol dehydration over Pd-HbZ catalysts with different pretreatment
1465	P-EF-115	Shuyang Wu	Premixed stagnation flame synthesized TiO ₂ nanoparticles with mixed phases for efficient photocatalytic hydrogen generation
1466	P-EC-038	Haojing Wang	Nickel nanoparticles encapsulated in multilayer graphene derived from nitrogen-rich metal-organic frameworks for efficient electrocatalytic CO ₂ reduction